COMMITTEE ON POST OFFICE AND CIVIL SERVICE U.S. HOUSE OF REPRESENTATIVES

Appendices to the Study of Total Compensation in the Federal, State and Private Sectors

December 4, 1984

Prepared by Hay/Huggins Company and Hay Management Consultants

Atlanta • Boston • Charlotte • Chicago • Cincinnati • Dallas • Houston • Kansas City • Los Angeles • Minneapolis • New York • Philadelphia • Phoenix • Pittsburgh • St. Louis • San Francisco • San Jose • Seattle • Stamford • Walnut Creek • Washington, D.C.



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APPENDIX A

Hay Cash Compensentation Comparison
Participant List

1983 HCC INDUSTRIAL

MANUFACTURING

AEL Industries	BATUS	Cooper Industries
AMAX	Brown & Williamson Tobacco	Apex Machine & Tool
AMAX Base Metals R & D	Bell Helicopter Textron	Cooper Air Compressors
AMAX Chemicals	Berol	Cooper Air Tools
AMAX Coal	Berol USA	Cooper Electronics
AMAX Copper	Fairlawn	Cooper Energy Services
AMAX Environmental Services	Hudson Lumber	Cooper Hand Tools
AMAX Exploration AMAX Extractive R & D	Binney & Smith	Cooper Petroleum Equipment
AMAX Lead & Zinc	Boehringer Ingelheim Ltd. U.S.A. Borg-Warner	Crouse-Hinds
AMAX Molybdenum	Air Conditioning Group	Belden Electrical Wire Products Demco
AMAX Nickel	Chemicals and Plastics Group	Distribution Equipment
AMAX Petroleum	Energy Equipment Group	Funk Manufacturing
AMAX Phosphate	Transportation Equipment Group	Kirsh
AMAX Special Metals	Braden Steel	Martin-Decker
AMF	Bridgestone Tire	Portable Rig
Abitibi Price	Brown & Sharpe Manufacturing	Copeland
Air Products and Chemicals	Bucyrus-Erie	Copperweld
Chemical Group	Construction Machinery	Copperweld Bimetallics Group
Industrial Gases Group	Mining Machinery	Copperweld Energy Group
Process Systems Group	Western Gear	Copperweld Robotics
Alcan Aluminum	Burmah Castrol	Cooperweld Steel
ALCOA	Burry-Lu	Copperweld Tubing Group
Alexander & Baldwin	CFS Continental	Information Systems
Allen-Bradley	CWC Castings	Core Laboratories
Allergan Pharmaceuticals	California & Hawaiian Sugar	Coulter Electronics
Allis-Chalmers	Camcar	Curtin-Matheson Scientific
AMCA International	Cameron Iron Works	Crane
Cherry-Burrell	Canteen	Crane U.S.A.
Consumer Products	Cargil!	Current
Varco-Pruden	Carrier	Cutter Laboratories
Amerada Hess	Case (J.I.)	Cyclops
American Crystal Sugar	Castle (A.M.)	Dairy Equipment
American Hospital Supply	Caterpillar	Dallas Morning News
American Maize Products - Corn Process, Division	Ceco	Dan River
Anaconda Ericsson	Celanese	Danis Industries
Communications Division	Virginia Chemicals	Waste Services
Anamax Mining	Central Soya	Deluxe Check Printers
Anchor Hocking	Chef Francisco	Dennison Manufacturing
Andersons, The Anderson-Clayton	Chemplex Cherebrough Bond's	Dennison National
Igloo	Chesebrough-Pond's Bass (G.H.)	Dentsply International Dexter
Arcata Graphics	Health-Tex	C.H. Dexter
Arcata Graphics Buffalo	Prince Manufacturing	Gibco
Baird Ward	Chipman-Union	Howe & Bainbridge
Fairfield Graphics	Chloride	Hysol
Halliday Lithograph	Ciba-Geigy	Midland
Kingsport Press	Agricultural	Mogui
San Jose Graphics	Airwick Industries	Diamond Shamrock
Armco	Dyestuffs and Chemicals	Chemical
National Supply	liford	Coal
Armstrong World Industries	Pharmaceuticals	Exploration & Production
ASEA	Plastics and Additives	Refining & Marketing
Ashland Oil	Clark Equipment	Dick (A.B.)
Ashland Chemical	Clevepak	Dietrich Industries
Ashland Coal	Clow	Diversey Wyandotte
Ashland Exploration	Coca-Cola Bottling Co. United	Dixie Yarns
Ashland Petroleum	Codex	Donnelley (R.R.)
Atlantic Steel	Collins & Aikman	Dow Chemical
Atlas Minerals	Columbia Nitrogen	Dow Corning
BW Steel	Commercial Shearing	Duriron
Calumet Steel	Computervision	E.I. DuPont de Nemours
Franklin Steel	ConAgra	Conoco
Badische	Banquet Foods	Coal & Minerals
Barber-Greene	Consolidated Metco	Concarb
Barden	Consolidated Packaging	Petroleum Operations
Barry Wright	Contraves Goerz	E-Z-Em
	Cooling Lindsay RIS	

1983 HCC INDUSTRIAL (Continued)

MANUFACTURING

Eaton	Horter	La Maur
Industrial Products Group	Amchem	Lamb-Weston
Transportation Products Group	Hercules	Leggett & Platt
Economics Laboratory	High Industries	LEGO Systems
Energy Reserves	Hilti	Levi-Strauss
Engelhard Industries Division	Hill Steel Industries Products	Childrenswear
Ensign-Bickford Industries	Honeywell	Menswear
Essex Chemical	Building Services	Womenswear
Euclid	Information Systems	Leybold Heraeus Vacuum Products
Everest & Jennings	MicroSwitch	Libbey-Owens-Ford
Exxon Company U.S.A.	Process Control	Lithium Corporation
FMC-Ordnance Div.	Residential	Lord
Ferrero U.S.A.	Hormel (Geo. A.)	Louisiana Land & Exploration
Firestone Tire & Rubber	Houghton Mifflin	Lufkin Industries
Flinchbaugh Products	Howmet	M & M Mars
Florida Steel	Huber (J.M.)	MCC Powers
Foote Mineral	Huffy	MPB
Franklin Mint	Bike Assembly	Mack Printing
Freeport McMoRan	Frabill Bicycle	Mack Trucks
Freightliner	Ohio Bicycle	Macmillan
French (R.T.)	Ojklahoma Bicycle	Magnetic Controls
Grocery	Hunt Manufacturing	MAPCO
Potato	Hunt-Wesson Foods	Mary Kay Cosmetics
Fruit Growers Express	Hydril	Matthews International
G,A, Technologies	Hygeia Coca-Cola Bottling	Maytag
GATX-Fuller	Hyster	McGraw-Edison
General American Transportation	IC Industries	Bussmann
Tank Erection/Pollock	Abex	Campbell Chain
GCO Minerals	Midas International	Clarke
General Electric	Pepsi-Cola General Bottlers	Lighting Products
General Foods	Pet	Masoneilan
General Mills	Pet Dairy	Onan
General Shale Products	ICI Americas/U.S.A.	Power Systems
General Signal	Illinois Tool Works	Service
DeZurik	Industrial Paper Distributors	Wagner
General Railway	Ingersoll-Rand	Worthington Group
Leeds and Northrup	Inmont	McGraw-Hill
Getty Oil	Intecom	McQuay
Gifford Hill	Intercraft Industries	Berlin Foundry
Gilbarco	International Harvester	Energy Systems & Service
Global Marine	Agricultural Equipment Group	HVAC
Glynwed	Truck Group	OEM
Goldkist	International Multifoods	Perfex
Goodrich (B.F.)	International Packings	Specialty Products
Goodyear Tire & Rubber	International Paper	Mead
Great Northern Nekoosa	Inter Royal	Media General
Great Northern Paper	ltek	Merck
Great Southern Paper	Applied Technology	Microdot Fastening Systems
Nekoosa Papers	Graphic Systems and Communication Industries	Miles Laboratories Mine Safety
Griffin Pipe Products	Optical Systems	Minneapolis Electric Steel Castings
Gulf Oil	Johnson (S.C.) & Son	
Harshaw Chemical	Johnson Matthey	MITRE
Hallmark Cards	Joy Manufacturing	Modine
Hamilton Glass Products	Kal Kan	Morgan Corporation
Hammermill Paper	Kellogg	Morrison
Beckett Paper	Kendall	Murphy Oil NCR
Northern Operations	Kennametal	NCR Nalco Chemical
Hanes	Kent-Moore	· · • · • · • · · · · · · · · · · · · ·
Healthdyne	Kerr-McGee	Nashua Nashua Cupaum
Air Shields	Chemical	National Gypsum
Bio Systems	Forest Products	American Olean Tile
Pilling Co.	Mining	Binswanger Glass
Product Service	Petroleum	Certet Road Building Products
Heinz (H.J.)	Keyes Fibre	Gold Bond Building Products
Heinz U.S.A.	Kimberly-Clark	National Sea Products
Hubinger	La Barge	National Valve and Manufacturing
Ore-Ida Foods	Electronics Division	
	Tubular Division	

Tubular Division

1983 HCC INDUSTRIAL (Continued)

MANUFACTURING

Natomas Pittsburgh Corning Standard Oil (Ohio) Pittsburgh - Des Moines Steel Chemicals & Industrial Products Natomas Coal Natomas North American Plexco Kennecott Natomas Petroleum International Polk (R.L.) Thermal Power Price Brothers Old Ben Coal Newport News Shipbuilding Puritan-Bennett Petroleum **Quaker Oats** Standard Register Newsweek Steiger Tractor Nippondenso of Los Angeles Racal-Milgo Nissan Motor Manufacturing U.S.A. Racine Steel Castings Stepan Chemical Noranda Aluminum Suburban Propane Gas -Railcar Norgren (C.A.) Real Estate Data Plateau North American Philips Recognition Equipment SPG Energy Exploration Philips Medical Systems Reichhold Chemicals Sun Company North Star Steel Rexnord Superior Electric Northrop - Defense Systems Division Reynolds (R.J.) Industries Susquehanna Northrop - Electronics Division R & G Sloane Manufacturing Aminoil Northwest Energy Archer Rockwool Industries Northwest Marine Iron Works Del Monte Syntex Syntex Dental Products Norton Tobacco **Nortronics** Syntex Opthalmics Revnolds Metals O'Sullivan Industries Syva Robbins & Myers Occidental Chemical **TRW Mission** Comfort Conditioning Agricultural Products Group Technicon Instruments Electric Motor Feed Fluids Handling Tenneco Oil - Processing and Marketing Fertilizer Tetiev Materials Handling Energy-for-Waste Texas Instruments Robins (A.H.) Industrial Chemicals Group Texas Gulf Rockwell International International Group - Headquarters Division Thermo-Electron Rogers Plastic & Chemical Specialities Group Timken Interconnection Products Group Durez Tonka Rolls Royce Plastic Triad Chemical Royster Occidental Oil Shale **UARCO** Rust-Oleum Okidata Union Carbide Olin Union Pacific Allied Paper Brass Champlin Petroleum Paper Converting Chemicals Rocky Mountain Energy Pulp & Paper Consumer Products Upland Industries Chemicals Union Special Ecusta Organic Chemicals Winchester Union Tank Car Pigments, Metals & Equipment Otis Elevator, NAO UNIROYAL Consumer Products Otis Engineering U.S. Gypsum Durkee Famous Foods Owens-Corning Fiberglas U.S. Steel **Proctor-Silex** Owens-Illinois U.S. Tobacco Smith-Corona **PPG Industries** Upjohn Durkee Foods Asgrow Seed Chemicals Glidden Coatings and Resins Coatings and Resins Chemical Kleinschmidt Fibergias **Pharmaceutical** SPS Technologies Glass Vallen Sandia National Laboratories Pako Valmont Industries Sandvik **PALCO Industries** Scott Paper Paper Converting **Electron Devices** Sentry Enterprise Group Peabody Coal Integrated Systems Reed Industries Pendleton Woolen Mills Power Systems SNE Corporation Semi Conductor Penn Dairies Sherex Chemical Pennfield Walbro Siemens Pennwalt Wallace Silversmiths Signode Waterbury Farrel Pepsico Sii McEvov Frito-Lav Western Electric Soitex Polymer Western Publishing Pepsi-Cola U.S.A. Salsbury Laboratories Westinghouse Electric Pensi-Cola Bottling Group Sonat Exploration Wilson Sporting Goods White Castle System Sonat Offshore Drilling Perkin-Elmer Williams Companies Sonoco Products Philip Morris International Agrico Chemical Sony Magnetic Products Philip Morris U.S.A. Edgcomb Metals Speed Oueen Williams Exploration Pillsbury Sperry Pitney Bowes Williams National Gas Sperry and Hutchinson Dictaphone Williams Pipe Line Staley (A.E.) Manufacturing Monarch Marking Wrigley (Wm.) Jr. Standard Oil (Indiana) Wyman Gordon Pitney Bowes Business Systems Wheeler Group Xerox

Zenith

1983 HCC INDUSTRIAL

NON-MANUFACTURING

Abitibi Price Sales	Convolidated Parties	
Alitalia North America	Consolidated Freightways	Mutual Broadcasting ,
American Broadcasting	CF Air Freight CF Data Service	National Broadcasting
Leisure		National CSS
Publishing .	Consolidated Freightways of Delaware Consolidated Rail	Norfolk Southern
Radio	Continental Holding	North American Car
Television		North American Van Lines
Video	Cox Cable Communications	North Carolina Assoc. of Electric Cooperative
American Chemical Society	Cox Data Services	Norwest Financial Information Services Grou
Chemical Abstracts Service	Distek Dravo	Pancho's Mexican Buffet
American Gas Association	_	Pittsburgh & Lake Erie Railroad
American Society of Mechanical Engineers	DynaCor EG & G Idaho	Pizza Hut
American Telephone & Telegraph		Princeton University Plasma Physics Laborato
American Bell	Factory Mutual Engineering and Research	Puerto Rico Marine Management
Bell Telephone Laboratories	Federal Express	Red Owl Stores
Bell Telephone Co. of Pennsylvania	Flagship Computer Services	Snyder Drug Stores
Chesapeake and Potomac Telephone Cos.	Fleming	Reynolds & Reynolds
Cincinnati Bell	Flickinger (S.M.)	Reynolds Electrical & Engineering
Illinois Bell Telephone	Florist Transworld Delivery	Ryder System
Indiana Bell Telephone	Floral Network	Santa Fe Railway
Long Lines	Flying Tigers	Sea Land
Michigan Bell Telephone	Fox & Jacobs	Sears, Roebuck
New England Telephone	GATX	Society of Automotive Engineers
New Jersey Bell Telephone	GARD	Soo Line Railroad
New York Telephone	GATX Leasing	Southeastern Railroad Associated Bureau
Ohio Bell Belephone	GATX Terminals	Southern Pacific Railroad
Pacific Northwest Bell Telephone	American Steamship	Suburban Propane Gas
Pacific Telephone & Telegraph	GTE	Eastern Division
South Central Bell Telephone	Genstar	Vangas
Southern Rell Telephone	Flintkote	Subaru of America
Southern Bell Telephone & Telegraph	Land and Housing	SuperValu
Southern New England Telephone Southwestern Bell Telephone	Godfather's Pizza	County Seat Stores
Wisconsin Telephone	Grand Trunk Western Railroad	Risk Planners
	Graver Water/Unitech	Supermarkets General
American Trucking Association Amtrak	Graybar Electric	Syscon
Ashland Services	Hannaford Brothers	Terminal Freight Handling
Atlantic Aviation	Hartmarx	Texas American Services
Bariven	Howe-Baker Engineering	Trailer Train
	Illinois Central Gulf Railroad	Trans Union Credit Information
Bessemer & Lake Erie Railroad Best Western International	Illinois Consolidated Telephone	Union Pacific Railroad
Blount	Institute of Elect. & Electr. Engineers	United Telecommunications
Bramco	Kepner-Tregoe	North Supply
	Kroger	United Telephone System
Burlington Northern Railroad	Lavino Shipping	Carolina Group
Burns International Security Service	Lee Way Motor Freight	Eastern Group
Butt (H.E.) Grocery	Long Island Railroad	Florida Group
CCH Computax	Major League Baseball	Midwest Group
CSX	Matson Navigation	Northwest Group
Carson Pirie Scott	Mayflower	Southeast Group
Department Stores	McKee (Robert E.)	Texas Group
Wholesale Floor Covering	Mercedes-Benz of North America	United Telephone of Indiana
Central Telephone of Illinois	MetPath	United Telephone of Ohio
Charles Levy Circulating	Metro North Commuter Railroad	Utelcom
Chicago, Milwaukee, St. Paul & Pacific Railroad	Metropolitan Transit Authority	University Computing
Chicago & Northwestern Transportation	Midcoast Aviation Services	Viacom International
C L Systems	Mill Power Supply	WSM International
Cominco American	Minolta	
Communications Satellite	Missouri Pacific Railroad	Williams Realty
	Missouri Valley Machinery	Yellow Freight System
		Zale Corporation

1983 HCC INDUSTRIAL

UTILITIES

Arizona Public Service Basin Electric Power Cooperative Boston Gas Brooklyn Union Gas Carolina Power & Light Citizens Gas & Coke Colonial Gas Energy System Columbia Gas System Dayton Power & Light

Detroit Edison Duke Power East Ohio Gas Florida Power

General Public Utilities Gulf States Utilities Hackensack Water InterNorth

Kansas City Power & Light

Louisville Water

Massachusetts Municipal Wholesale Electric

Memphis Light, Gas and Water Metropolitan Sewer District Missouri Public Service Nebraska Public Power District Nevada Power Northern States Power

Ohio Edison

Pennsylvania Power Omaha Public Power District Pennsylvania Power & Light Philadelphia Gas Works Piedmont Natural Gas

Plains Electric Generation & Transmission Cooperative

Portland General Electric

Power Authority of the State of New York

Providence Gas Santee Cooper Sierra Pacific Power Sonat

Southern Natural Gas

Southwest Gas

Texas Gas Transmission Texas Utilities Services

Valero Energy Saber Energy Washington Public Power Supply

Wisconsin Gas

Please Note: All organizations listed have submitted data to this survey. However, data from some participants may not be available for use in some types of standard and special analyses at some times. When major re-evaluation and recorrelation processes take place, data may be withdrawn from the active file until those processes are complete. In other cases, due to the nature of a survey request and our knowledge of the required participants' data, we may restrict availability in order to preserve confidentiality.

1983 LIST OF PARTICIPANTS

Acacia Mutual Life Insurance (Washington, DC) Aid Association for Lutherans (Appleton, WI) Alabama Farm Bureau Mutual Casualty Insurance (Montgomery) Allendaie Mutual Insurance (Johnston, RI) American Express (NYC) Fireman's Fund Insurance (San Francisco) American Family Insurance Group (Madison, WI) American Mutual Insurance Companies (Wakefield, MA) American Mutual Life Insurance (Des Monies) American National Insurance (Galveston, TX) American Security Insurance Group (Atlanta) Arizona Bank, The (Phoenix) Armco Financial Services Group (Middletown, OH) Armco Financial Corporation (Middletown, OH) Armco Insurance Group (Milwaukee) Bellefonte Reinsurance (Cincinnati) Columbia National Life Insurance (Columbus, OH) Continental Western Life Insurance (Wilwaukee) North Pacific Insurance (Portland, OR) Northwestern National Insurance (Milwaukee) Pacific National Insurance (Los Angeles) Special Risks (Dallas) Talbot, Bird (NYC) Universal Reinsurance (Milwaukee) Association Life Insurance (Milwaukee) BMA (Kansas City, MO) Bank of New England (Boston) Bank of the Commonwealth (Detroit) Bank One of Northeastern Ohio (Painesville, OH) BankEast Corporation (Manchester, NH) Bankers Life (Des Moines) Bankers Life Nebraska (Lincoln) Bankers Life and Casualty (Chicago) Banking Center, The (Waterbury, CT) Banner Life Insurance (Rockville, MD) Barclays American Business Credit (East Hartford, CT) Barnett Banks of Florida (Jacksonville) Berkshire Life Insurance (Pittsfield, MA) Borg Warner Acceptance (Chicago) Capital Holding (Louisville) Capital Enterprise Insurance Group (Louisville) Commonwealth Life (Louisville) Georgia International Life (Atlanta) Home Security Life (Durham, NC) National Standard Life (Orlando) Peoples Life (Washington, DC) Carteret Savings and Loan (Morristown, NJ) Central Fidelity Bank (Richmond, VA) Central Life Assurance (Des Moines) Central Trust Bank (Jefferson City, MO) Chase Federal Savings & Loan (Miami) Chase Manhattan Bank (NYC) Citicorp (NYC) Clark Equipment Credit (Buchanan, MI) Columbus Mutual Life Insurance (Ohio) Commercial Security Bank (Salt Lake City) Commercial Union Insurance (Boston) Community Savings Bank (Rochester, NY) Connecticut Bank & Trust (Hartford)

Connecticut Savings Bank (New Haven)

Continental Corporation (NYC) Cotton States Insurance (Atlanta) Dallas Federal Savings & Loan (Texas) Dominion Bankshares (Roanoke, VA) East New York Savings Bank, The (NYC) Empire Mutual Insurance (NYC) Equitable Life Insurance of Iowa (Des Moines) Essex Bank (Peabody, MA) Farm Credit Banks of Springfield (Massachusetts) Farm Family Life Insurance (Albany, NY) First Bank System (Minneapolis) First National Bank of Minneapolis (Minnesota) First Columbia Financial Corporation (Denver) Columbia Savings & Loan (Denver) First Federal Savings & Loan of Lake Worth (Florida) First National Bank of Clayton (Missouri) First National Bank of Dubuque (Iowa) First National Bank of Maryland (Baltimore) First National Bank of Pennsylvania (Erie) First Pennsylvania Bank (Philadelphia) First Security Corporation (Salt Lake City) First Texas Savings (Dallas) Flagship Banks (Miami) Flagship National Bank of Miami (Florida) General American Life Insurance (St. Louis) General Electric Credit (Stamford, CT) Goldome (Buffalo, NY) Great Southern Life Insurance (Houston) Great Western Bank (Phoenix) Great West Casualty (South Sioux City, NE) Home Federal Savings and Loan (Tuscon) IBM Endicott/Owego Employees Federal Credit Union (Endicott, NY) 1BM Mid America Employees Federal Credit Union (Rochester, MN) Independent Life Insurance (Jacksonville) InterFirst (Dallas) InterFirst Bank Austin (Texas) InterFirst Bank Dallas (Texas) InterFirst Investment Management (Dallas) Integon (Winston-Salem, NC) Investors Diversified Services (Minneapolis) Kanawha Valley Bank (Charleston, WV) Kansas City Life Insurance (Kansas City, MO) National Reserve (Topeka, KS) Sunset Life (Olympia, WA) Lake Shore National Bank (Chicago) Liberty National Life Insurance (Birmingham, AL) Lincoln National Bank (Ft. Wayne, IN) Lincoln National Corporation (Ft. Wayne, IN) American States Insurance (Indianapolis) Chicago Title & Trust (Illinois) Lincoln National Life Insurance (Fort Wayne, IN) Lutheran Brotherhood (Minneapolis) Lutheran Mutual Life Insurance (Waverly, IA) M & I Marshall & Ilsley Bank (Milwaukee) M & T Bank (Buffalo) Maine Savings Bank (Portland) Manhattan Life Insurance (NYC) Manufacturers Hanover Trust (NYC) Marine Corporation (Milwaukee) Massachusetts Property Insurance Underwriters Association and Rhode Island Joint Reinsurance Association (Boston, MA)

Mechanics Savings Bank (Hartford)

Mellon Bank (Pittsburgh)

Merrill Lynch (NYC)

Midland Mutual Insurance (Columbus, OH)

Ministers Life Insurance (Minneapolis)

Minnesota Federal Savings & Loan (St. Paul)

Minnesota Mutual Life Insurance (St. Paul)

Monumental Life Insurance (Baltimore)

Morgan Guaranty Trust (NYC)

Mutual Benefit Life Insurance (Newark)

Mutual Federal Savings & Loan (Norfolk, VA)

Mutual Life Insurance of New York (NYC)

Mutual of Omaha Insurance (Nebraska)

Mutual Trust Life Insurance (Chicago)

National Bank of Detroit (Michigan)

National Life Insurance (Montpelier, VT)

National Rural Utilities Cooperative Finance (Washington, DC)

New England Mutual Life Insurance (Boston)

North American Life & Casualty (Minneapolis)

Northwest Bancorporation (Minneapolis)

Banco Financial (Minneapolis)

Banco Incorporated (Minneapolis)

Banco Properties (Minneapolis)

First American National Bank (Duluth, MN)

First National Bank of Aberdeen (South Dakota)

First National Bank of the Black Hills (Rapid City, SD)

Iowa-Des Moines National Bank (Iowa)

Midland National Bank (Minneapolis)

Northwest National Bank Southwest (Bloomington, MN)

Northwestern National Bank (Minneapolis)

Northwestern National Bank (Sioux Falls)

Northwestern National Bank (St. Paul) Southside Insurance (Minneapolis)

Unites States National Bank (Omaha)

Composite of 77 Banks

Composite of 4 Trust Companies

Northwestern Mutual Life Insurance (Milwaukee)

Northwestern National Life Insurance (Minneapolis)

North Atlantic Life Insurance (Jericho, NY)

Northern Life Insurance (Seattle)

Norwest Financial (Des Moines)

Ohio Citizens Trust (Toledo)

Ohio National Life Insurance (Cincinnati)

Old National Bank (Evansville, IN)

Old National Bank (Spokane, WA)

Old Stone Bank (Providence, R1)

Omaha National Bank (Nebraska)

Onondaga Savings Bank (Syracuse, NY)

PMI Mortgage Insurance (San Francisco)

Patrons Mutual Insurance (Olathe, KS) Pennsylvania National Mutual Casualty

Insurance (Harrisburg)

People's Savings Bank (Bridgeport, CT)

Pioneer Savings & Loan (Racine, WI)

Pitney Bowes Credit (Darien, CT)

Pittsburgh National Bank (Pennsylvania)

Pontiac State Bank (Michigan)

Protective Life Insurance (Birmingham, AL)

Provident Life and Accident Insurance

(Chattanooga, TN)

Provident Life Insurance (Bismarck, ND)

Provident Mutual Life Insurance (Philadelphia)

Puget Sound National Bank (Tacoma, WA)

Ranger Insurance (Houston)

American Founders Life Insurance (Austin, TX)

Royal Bank of Canada (NYC)

San Diego Trust & Savings Bank (California)

Security Benefit Life Insurance (Topeka, KS)

Security Mutual Life of New York (Binghamton)

Security Pacific Finance (San Diego)

Security Savings Bank (Marshalltown, IA)

Sentry Insurance (Stevens Point, WI)

Society for Savings (Hartford, CT)

St. Paul Companies (Minnesota)

Western Life Insurance (St. Paul)

State Automobile Mutual Insurance (Columbus, OH)

State Street Bank & Trust (Boston)

Statesman Group (Des Moines)

Student Loan Marketing Association (Washington, DC)

Sun Life of Canada (Wellesley Hills, MA)

Texas American Bancshares (Fort Worth)

American Ag Credit (Aurora, CO)

Texas American Bank - Amarillo (Texas)

Texas American Bank - Austin (Texas)

Texas American Bank - Dallas (Texas)

Texas American Bank - Denison (Texas)

Texas American Bank - Fort Worth (Texas)

Texas American Bank - Galleria (Houston)

Texas American Bank - Houston (Texas)

Texas American Bank - LBJ (Dallas)

Texas American Bank - McKinney (Texas)

Texas American Bank - Midland (Texas)

Texas American Bank - Prestonwood (Dallas)

Texas American Bank - Riverside (Fort Worth)

Texas American Bank - Westside (Fort Worth)

Texas American Investment Management (Fort Worth)

Texas Commerce Bank - Austin (Texas)

Texas Federal Savings & Loan (Dallas)

Third National Bank and Trust (Dayton, OH)

Time Insurance (Milwaukee)

Title Insurance & Trust (Los Angeles)

Tower Federal Credit Union (Annapolis Junction, MD)

Travelers, The (Hartford, CT)

Union Mutual Life Insurance (Portland, ME)

United Central Bank (Des Moines)

United Insurance Co. of America (Chicago)

United Virginia Bank (Richmond)

Valley National Bank (Phoenix)

Virginia National Bank (Norfolk)

Washington National Corporation (Evanston, IL)

Anchor National Life Insurance (Phoenix)

Washington National Insurance (Evanston, IL)

Western States Life Insurance (Fargo, ND) Zurich Insurance (Schaumburg, IL)

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1982 SERVICE PARTICIPANTS

BLUE CROSS/BLUE SHIELD

P1
Alabama BC/BS (Birmingham)
California, BC of Southern (Los Angeles)
Connecticut BC/BS (North Haven)
Florida BC/BS (Jacksonville)
Iowa BC/BS (Jacksonville)
Iowa BC/BS (Des Moines)
Kentucky BC/BS (Louisville)
Maryland BC/BS (Baltimore)
Massachusetts BC/BS (Boston)
Michigan BC/BS (Detroit)
Missouri BC/BS (St. Louis)
New Jersey BC/BS (Newark)
New York, BC/BS of Greater (NYC)
North Carolina BC/BS (Durham)
Ohio, BC of Northeast (Cleveland)
Ohio, BC of Southwest (Hospital Care Corporation) (Cincinnati)
Ohio BS (Worthington)
Pennsylvania, BC of Greater Philadelphia
Pennsylvania BS (Camp Hill)
Texas BC/BS (Dalias)
Virginia BC/BS (Richmond)
Wisconsin, United BC/BS (Milwaukee)

P2
Arkansas BC/BS (Little Rock)
Colorado BC/BS (Denver)
Delaware BC/BS (Wilmington)
Georgia BC/BS (Atlanta)
Georgia BC/BS (Columbus)
Idaho BC (Boise)
Kansas BC/BS (Topeka)
Maine BC/BS (Portland)
Mississippi BC/BS (Jackson)
Missouri BC/BS (Kansas City)
Montana BC (Great Falls)
New York, BC of Northeastern (Albany)
New York, BC of Western (Buffalo)
Ohio, BC of Central (Columbus)
Ohio, BC of Northwest (Toledo)
Pennsylvania, Lehigh Valley BC (Allentown)
Rhode Island BC/BS (Providence)
Utah BC/BS (Salt Lake City)
West Virginia BC/BS (Charleston)

HOSPITALS

Allegheny General Hospital (Pittsburgh)
Alta Bates Corporation (Berkeley, CA)
Appalachian Regional (10 Hospitals) (Lexington, KY)
Archbishop Bergan Mercy Hospital (Omaha)
Baptist Hospitals and Health Systems (Phoenix)
Baystate Medical Center (Springfield, MA)
Bethesda Hospital & Deaconess Association (Cincinnati)
Bishop Clarkson Memorial Hospital (Omaha)
Boswell Memorial Hospital (Sun City, AZ)
Children's Hospital of San Francisco (California)
Choate/Symmes Health Services (Woburn, MA)
Citizens General Hospital (New Kensington, PA)
Evangelical Hospital Association (Oak Lawn, IL)
Fresno Community Hospital and Medical Center (Fresno, CA)
Hahnemann Medical College and Hospital (Philadelphia)
Hartford Hospital (Connecticut)
Hillcrest Medical Center (Tulsa, OK)
IHC Hospital Corporation (25 Hospitals) (Salt Lake City)
Madison General Hospital (Madison, WI)
Maine Medical Center (Portland)
Manchester Memorial Hospital (Connecticut)
Memorial Hospital Medical Center (Long Beach, CA)
Memorial Hospital System (Houston)
Mercy Hospital (Miami, FL)

Mercy Medical Center (Coon Rapids, MN)
Michael Reese Hospital and Medical Center (Chicago)
Montefiore Hospital and Medical Center (NYC)
NKC (Louisville, KY)
Oil City Hospital (Oil City, PA)
Overlook Hospital (Summit, NJ)
St. John Hospital (Detroit, MI)
St. Joseph's Hospital (Tucson, AZ)
St. Joseph's Hospital and Medical Center (Patterson, NJ)
St. Luke's Hospital (Milwaukee)
St. Luke's Hospitals (Fargo, ND)
St. Luke's Medical Center (Phoenix)
St. Mary'corwin Hospital (Pueblo, CO)
St. Mary's Medical Center (Knoxville, TN)
St. Mary's Medical Center (Knoxville, TN)
St. Mary's Medical Center (Racine, WI)
Samaritan Health Service (5 Hospitals) (Phoenix)
Shadyside Hospital (Pittsburgh)
Sutter Community Hospital (2 Hospitals) (Sacramento, CA)
Trumbull Memorial Hospital (Warren, OH)
United Presbyterian Residence (Long Island, NY)
University Hospital of Cleveland (Ohio)
Warren General Hospital (Warren, PA)
Wesley Medical Center (Wichita, KS)

NONPROFIT ORGANIZATIONS

A.A. World Services (New York, NY)
American Bankers Association (Washington, D.C.)
American Heart Association (Dallas)
American Hospital Association (Chicago)
American Institute of CPA's (New York, NY)
American Society of Chartered Life Underwriters (Bryn Mawr, PA)
Appalachia Educational Laboratory (Charleston, WV)
Bank Marketing Association (Chicago)
Blue Cross and Blue Shield Associations (Chicago)
Carnegie Institute and Library (Pittsburgh)
CEMREL (St. Louis)
Far West Laboratory (San Francisco)
Financial Accountants Standards Board (Stamford, CT)
Financial Executives Institute (NYC)
Gateway School District (Pittsburgh, PA)
Girl Scouts of the USA (NYC)

International Reading Association (Newark, DE)
Life Insurance Marketing and Research Association (Hartford, CT)
Life Office Management Association (Atlanta)
Lucas County Children Services Board (Maumee, OH)
Lutheran Social Services (Dayton, OH)
Midwest Research Institution (Kansas City, MO)
National Association for Retarded Citizens (Arlington, TX)
National Association of Mutual Savings Banks (NYC)
National Board of Medical Examiners (Philadelphia)
Pennsylvania Medical Society (Lemoyne, PA)
San Diego Zoological Society (San Diego, CA)
United Methodist Publishing House (Nashville, TN)
University of Texas Health Science Service (Houston, TX)
Wilder (Amherst H.) Foundation (St. Paul)
YMCA of Metropolitan Chicago (Illinois)
YMCA of the United States (Chicago)

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APPENDIX B

Hay/Huggins Benefits Comparison
Participant List

HAY-HUGGINS BENEFITS CONSULTING SERVICES

Hay-Huggins, a member of the Hay Group, is a unique affiliation of two professional consulting organizations: Hay Associates with its extensive capabilities in human resources consulting and Huggins and Company with its actuarial consulting expertise. This combination produces a "total remuneration" approach to employee benefits. The Hay-Huggins approach takes into account the full picture of cash compensation, incentives, and noncash compensation including employee benefits, perquisites and related personnel policies.

As a member of The Hay Group, the largest human resources consulting firm in the world with 73 offices in 23 countries, Hay-Huggins serves over 1,000 organizations worldwide: industrial and financial companies of all size, including many Fortune 500 companies, government and research organizations and not-for-profit institutions.

All client assignments are approached from a viewpoint that is practical, innovative and flexible enough to meet each client's unique objectives. To ensure total objectivity, Hay-Huggins does not accept commissions.

Hay-Huggins pioneered the development of employee benefits measurement and comparison systems; in addition, Hay-Huggins maintains the most detailed data base of employee benefits and personnel policies in the United States.

Hay-Huggins actuaries and consultants also help establish an important bridge between the two organizational functions most concerned with employee benefits: Personnel and Finance. This valuable orientation permits our professional staff to help both personnel and financial executives meet their objectives of providing employees with the best benefit coverages possible at the most reasonable cost to the organization.

Among specific services available to employers are:

- Establishing Employee Benefits Objectives
- Total Compensation Planning and Budgeting
- Assessing the Adequacy of Benefits
- Objective Analysis of Benefit Program Competitiveness
- Actuarial Analysis Services
- Group Insurance Financial Audits
- Studies of Employee Perceptions of Benefits
- Benefits Communications

LIST OF PARTICIPANTS

Abbott Laboratories Abbott Northwestern Hospital Acacia Mutual Life Insurance Company Action Industries, Inc. Advanced Technologies AEL, Inc. Aerospace Corporation AGA Gas, Inc.

Aid Association for Lutherans Air Products and Chemicals Alabama Power Company

ALCOA Alexander & Alexander Alexander & Baldwin, Inc.

Alfa Romeo, Inc. Allegheny Intermediate Unit Allen Bradley Company Allendale Mutual Insurance Allergan Pharmaceuticals Allied Bank International Allied Corporation

Allis Chalmers Company AMAX. Inc.

Amerada Hess Corporation American Association

for the Advancement of Science American Bank and Trust of Pennsylvania

American Bankers Association American Broadcasting Company, Inc. American Chemical Society

American College, The American Council of Life Insurance American Crystal Sugar American Express Company

American Family Insurance Group American Gas Association American Heart Association, Inc.

American Hoechst

American Hospital Association American Hospital Supply Corporation American Institute for Research American Institute of CPA's American Iron and Steel Institute American Public Transit Association American Reinsurance Company American Security and Trust Company

American Shipbuilding

American Society of Civil Engineers American Society of Refrigerator & Air Conditioner Engineers

American Standard, Inc.

American States Insurance Companies

American Sterilizer Company American Systems Corporation

American Telephone & Telegraph Company

Amerifirst Federal Savings & Loan

Ameritrust Amersham Amfac Hotels Amtrak

Anaconda Minerals Company Anchor/Darling Industries Anchor Hocking Corporation Anchorage School District Andersons, The

Annuity Board of Southern Baptists

Arc America Arcata Corporation

Archbishop Bergan Mercy Hospital Archer-Daniels Midland

ARINC Research Corporation

Arizona Bank

Arkansas Best Corporation

Armco, Inc.

Armco Insurance Group Armstrong World Industries, Inc.

Arvida Corporation Asarco, Inc.

ASEA Ashland Oil, Inc.

ASHRTAC Engineering Atlantic Aviation Corporation Atlantic Mutual Insurance Company Automobile Club of Michigan

Avery Products Corporation

BABB, Inc. **Badische Corporation** Baker Industries Baltimore Aircoil

Bank Fund Staff Federal Credit Union

Bank Marketing Association Bank of the Commonwealth Bank of New England, N.A. BankEast Corporation

Bankers Life and Casualty Company

Bankers Life Company, The Bankers Life of Nebraska Baptist Hospital & Health Systems Barber-Greene Company Barclays Bank of California Barclays Bank of New York Barden Corporation Bariven Corporation Barnett Banks of Florida

Basin Electric Power Cooperative

BATUS, Inc.

BDM Corporation, The Bean Company, L. L. Beaven Companies **Bechtel Corporation** Beechum, Inc. Bell Helicopter Textron Bell Telephone of Pennsylvania Bendix Corporation-

Aerospace and Electronics Group Berkshire Life Insurance Company

Berol Corporation

Bessemer & Lake Erie Railroad Best Products Company, Inc.

Bethesda Hospital **Betz Laboratories**

Beverage Management, Inc. Bishop Clarkson Memorial Hospital Black & Decker Manufacturing Company

Blessings Corporation Dick Blick Company

Blue Cross Hospital Service Inc.-

St. Louis, Missouri

Blue Cross of Greater Philadelphia Blue Cross of Northeast Ohio Blue Cross of Northeastern New York Blue Cross of Northwest Ohio

Blue Cross of Southern California Blue Cross/Blue Shield Associations, Inc. Blue Cross/Blue Shield of Alabama

Blue Cross/Blue Shield of Colorado Blue Cross/Blue Shield of Connecticut, Inc. Blue Cross/Blue Shield of Delaware, Inc.

Blue Cross/Blue Shield of Florida

Blue Cross/Blue Shield of Iowa Blue Cross/Blue Shield of Kansas Blue Cross/Blue Shield of Maine Blue Cross/Blue Shield of Maryland Blue Cross/Blue Shield of Massachusetts Blue Cross/Blue Shield of Michigan Blue Cross/Blue Shield of Nebraska Blue Cross/Blue Shield of North Carolina' Blue Cross/Blue Shield of Southern West Virginia Blue Cross/Blue Shield of Texas Blue Cross/Blue Shield of Virginia

Borg Warner Acceptance Corporation Boston Edison Company BP Alaska Exploration BP North America Braden Steel Corporation Bristol-Meyers Company

Bolt, Beranck and Newman, Inc.

Boone County National Bank

Brooklyn Union Gas Brooks and Perkins, Inc. **Brown University**

Brown & Williamson Tobacco Brunswick Corporation **Buckeye Gas Products** Bucyrus Erie Company Buffalo Savings Bank Burger King Corporation Burlington Northern, Inc. Burnett Company, Leo

Business Men's Assurance Company of America

Butler Manufacturing Company Butt Grocery Company, H.E. Buttes Gas & Oil Company

C.A.C.I., Inc.

California & Hawaiian Sugar Company California Credit Union League

Cameron Iron Works Campbell Soup Company Capital Holding Corporation

Cargill, Inc. Carle Foundation Carrier Corporation Carson, Pirie Scott Company Carteret Savings & Loan Castle & Company, A.M. Castle & Cooke, Inc. Caterpillar Tractor Company

Catholic Health Associations Ceco Corporation Center for Naval Analysis Central Bancshares of the South Central Life Assurance Central Soya Company, Inc.

Central Telephone and Utilities Corporation

Central Trust Bank Centronics

CertainTeed Corporation

CFS Continental

Chamber of Commerce of the United States

Chase Federal Savings and Loan Chase Manhattan Bank

Chemical Bank Chemlawn Corporation Chesebrough-Pond's, Inc. Chicago Board of Trade

Chicago Bridge & Iron Industries, Inc.

Chicago & Northwestern Transportation Company

Chicago Title and True

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Chicago Tribune Chipman-Union, Inc. Chrysler Corporation Ciba-Geigy Corporation CIGNA

Cincinnati Association for the Blind

Citibank, N.A.

Citizen's Bank & Trust, MD

Citizen's Bank City Bank & Trust City of Colorado Springs City of Hampton City of Los Angeles

City of Los Angeles (Fire & Police) City of Los Angeles (General) City of Los Angeles (Water & Power)

City of Newport News City of Norfolk City of Portsmouth City of Richmond City of Suffolk

Cleveland Electric Illuminating

CMS Companies CNA Insurance Coastal Corporation, The Coca-Cola Company, Inc. Cole National Corporation

Colonial Bank

Colonial Life and Accident

Columbia Gas System Service Corporation

Columbia Hospital

Columbia Nitrogen Corporation Commercial Security Bank Commercial Shearing, Inc.

Commercial Union Insurance Companies

Commonwealth National Bank Commonwealth of Pennsylvania Community Federal Savings and Loan Computer Sciences Corporation Computer Sciences Corporation-

Systems Divisions

COMSAT

Congressional Budget Office Connecticut Mutual Life Insurance Consolidated Rail Corporation

Continental Bank

Continental Corporation Continental-Emsco Company Continental Illinois Corporation Continental Materials Corporation

Contraves Goerz Corporation Conwed Corporation Thomas Cooke, Inc.

Cooper Industries Copperweld Corporation

Corroon and Black of Tennessee, Inc.

Cotton States Insurance Country Pride Foods, Ltd. County of Lake Courier Corporation

Cox Cable Communications, Inc.

Crane & Company Crocker National Bank

Crompton & Knowles Corporation Crowley Maritime Corporation

CRST, Inc. CSX Corporation Cyclops Corporation Danly Machine Corporation Dayton Power and Light Company Dayton-Hudson Corporation

Dead River Company

Decision Data Computer Corporation

Deluxe Check Printers, Inc. Dennison Manufacturing Company Deposit Guaranty National Bank Detroit Edison Company

Dexter Corporation Dial Financial Corporation Diamond Shamrock Dick Company, A. B. DiGiorgio Corporation

Disston Distek, Inc. Dixie Yarns, Inc. Donaldson Company Dow Chemical, U.S.A. Dow Corning Corporation

Draper Laboratory, Inc., Charles Stark

Dravo Corporation Duke Power Company Duriron Company, Inc. Durr Fillauer Medical, Inc. Dynalectron Corporation

East New York Savings Bank Eastern Stainless Steel Economics Laboratory, Inc. E. F. Hutton Credit Union

EG & G Idaho EG & G, Inc.

EMC Technologies, Inc. Energy Reserves Group Ensign-Bickford Industries, Inc.

Equibank, N.A. **Equitable Trust** Erie Insurance Group

Euclid, Inc.

Excelsior Truck Leasing Company, Inc.

Factory Mutual Engineering Corporation Farm Bureau Family Insurance Farm Credit Banks of Springfield, MA

Farm Credit Banks of St. Paul

Farm Family Life/Mutual Insurance Companies

Federal Express Corporation

Federal Home Loan Mortgage Corporation Federal National Mortgage Association Federal Reserve Bank of San Francisco

Fidelity Bank

Fidelity Mutual Life Insurance

Fidelity Union Life Insurance Company First American Bank & Trust, MD First American Bank, N.A. First Amtenn Corporation First Bank System, Inc.

First Mississippi Corporation First National Bank of Maryland First National Bank of Mexico, MO First National Bank of Minneapolis

First Oklahoma Bancorporation First Pennsylvania Bank First Security Corporation

Fisher-Price Toys

Flickinger Corporation Flo-Valve Company Florida Power Corporation Florida Steel Cor

FMC Corporation Foremost-McKesson Foster Company, L. B. Four Cities United Way Fox & Jacobs, Inc.

Fox-Stanley Photo Products, Inc.

Foxboro Company

Frantz Manufacturing Company Freeport-McMoRan, Inc. French Company, R.T. Friendly Ice Cream Corporation

Frito-Lay, Inc. Frito-Lay (Puerto Rico)

Fruit Growers Express Fusion Systems Corporation

Gallaudet College

GEICO

General American Insurance Company

General Electric Company General Electric Company-Space Systems Division General Foods Corporation

General Mills

General Shale Products Corporation

General Signal Corporation

Genstar, Ltd.

Georgetown Texas Steel Georgia Power Company Germantown Savings Bank

Gibraltar Savings

Gifford-Hill & Company, Inc. Girard Bank

Girl Scouts of the U.S.A. Godfather's Pizza Gould SEL., Inc.

Government Employee's Life Insurance

GPU Service Corporation

Grand Trunk Western Railroad Company

Graybar Electric Company

Great Southern Life Insurance Company

Greatwest Casualty Corporation

Greyhound **GRI** Corporation

GTE Automatic Electric, Inc.

GTE Laboratories

Hahnemann Medical College & Hospital

Hallmark Cards, Inc. Hall's Motor Transit Hamady Brothers Foods, Inc. Hanes Corporation

John Hancock Mutual Life Insurance Company

Hannaford Brothers Hartmarx Hartford Hospital Healthdyne

Heinz Company, H.J. Hewlett-Packard Company Highlands Energy Corporation Hillcrest Medical Center Hilti Industries, Inc. Hiram Walker Holmes & Narver, Inc.

Home Federal Savings and Loan Home Petroleum

Honeywell Federal Systems Division

Honeywell, Inc.—PMSD Hospital Data Center of Virginia

Hospital Service Plan of New Jersev Declassified and Approved For Release 2012/11/21 : CIA-RDP89-00066R000800210001-3

Howard Johnson Company Howard University Howe-Baker, Inc. Hubbard Milling Huber Corporation, J.M. Huffy Corporation

Hughes Aircraft Corporation

Human Resources Research Organization Hunt Chemical Corporation, Phillip A. Hunt Manufacturing Company

Husky Oil Hyatt Clark

Hygia Coca-Cola Bottling Company

ICI Americas, Inc. Illinois Bell Telephone Illinois Central Gulf Railroad Illinois Power Company Illinois Tool Works, Inc. Independent Life Insurance Indianapolis Life Insurance Indianapolis Power & Light Ingersoll-Rand Company Integon Corporation Interfirst Corporation Intermedics, Inc. Intermountain Health Care

International Packings Corporation International Playtex, Inc.

Investors Diversified Services

Itek Graphic Systems & Communications **Industries**

IU International Corporation

Jefferson Bank of Miami Johnson, E.F. Johnson & Son, S.C. Jonathon Corporation

Jones & Laughlin Steel Corporation Joy Manufacturing Company

Kaiser Foundation Health Plan

Kaiser Steel Kal Kan

Kansas City Life Insurance Kansas City Power & Light Kawasaki Motors Corporation, USA

Kellogg Company Kendall Company Kennametal, Inc. Kent-Moore Corporation Kepner-Tregoe, Inc. Kerr-McGee Corporation Kimberly-Clark Corporation Knapp-King-Size Corporation

Kroger Company

Lamb-Weston, Inc. Lavino Shipping Company Lawrence Livermore Laboratory Lever Brothers Company Levi Strauss & Company Charles Levy Circulating Company Leybold Hereaus Vacuum Libbey-Owens-Ford Company

Liberty National Bank & Trust Company Liberty National Life Insurance Company Life Insurance Marketing and Research (LIMRA)

Lincoln National Corporation Lipe-Rollway Corporation

Thomas J. Lipton Inc. LITHCO Long Island Railroad Company Lucas CAV Industries, Inc. Lucas Industries, Inc.

Lutheran Brotherhood

Lutheran Mutual Life Insurance Company

Mack Printing Company Mack Trucks, Inc. Madison General Hospital Magnetic Controls Company Mallinckrodt

Manchester Memorial Hospital Manufacturers and Traders Trust

MAPCO, Inc.

Mark Twain Bancshares, Inc.

Mary Kay Cosmetics

Massachusetts Mutual Life Insurance Company

Mathus Company, The Matsushita, Inc.

Mattel, Inc.

May Department Stores Company

Mayflower Corporation McGraw-Edison Company McGraw-Hill, Inc. McKee, Inc., Robert E. McQuay-Perfex, Inc. MCI Telecommunications

Mead Corporation

Medical Mutual of Cleveland Memorial Hospital Medical Center of

Long Beach

Memorial Hospital System of Houston Memphis Light, Gas, & Water Division

Merchants Insurance Group Merck & Company, Inc. Metpath, Inc.

MetroNorth Corporation

Metropolitan Life Insurance Company

Michigan Wisconsin Pipe Line Company Mid-Atlantic Toyota Distributors, Inc.

Midcon Corporation

Midland Mutual Life Insurance Company

Midwest Research Institute Midwest Stock Exchange, Inc.

Milchem, Inc. Miles Laboratories

Milwaukee Sanitation Department

Minnesota Fabrics, Inc.

Minnesota Mining & Manufacturing Company

Minnesota Mutual Life Insurance Company

Minolta Corporation

Missouri Pacific Railroad Company

Mitre Corporation Mitsubishi International Modern Drop Forge Modern Merchandising, Inc. Modine Manufacturing Company Monarch Capital Corporation Montefiore Hospital and Medical Center Montgomery Ward and Company

Moog, Inc.

Moore Business Forms, Inc.

Morgan Guarantee Trust Company of New York Morrison, Inc. Motorola, Inc. MSI Insurance Company

Murphy Oil Corporation Mutual Benefit Life Insurance Mutual Broadcasting System

Mutual Federal Savings and Loan Association Mutual Life Insurance Company of New York

Mutual of Omaha

NACUBO

National Bank of Detroit National Can Corporation National Gypsum Corporation National Railroad Labor Conference National Rural Utilities Cooperative

Finance Corporation National Supply Nationwide Insurance

Natomas

Navy Federal Credit Union NCNB Corporation NCR Corporation

Nebraska Public Power District **NEC Information System**

New England Mutual Life Insurance Company

Newport News Shipbuilding & Drydock

Newport Steel Corporation Nippondenso of Los Angeles NKC, Inc. Norfolk Southern Corporation

North American Life & Casualty Company

North American Philips Corporation North American Van Lines

North Broward Hospital District North Mississippi Medical Center

Northern Indiana Public Service Company

(NIPSCO)

Northern Life Insurance Northern Trust Company Northrup Corporation-Aircraft Division Northwest Bancorporation

Northwest Industries, Inc. Northwest Pipeline Corporation Northwestern Bell Telephone Company

Northwestern Mutual Life Insurance Company Northwestern National Life Insurance Company

Norton Company

Occidental Petroleum Ohio Edison Company

Ohio Medical Indemnity Mutual Corporation

Ohio Valley Medical Center, Inc.

OKIDATA Corporation Old Kent Bank and Trust

Old Stone Bank

Omaha Airport Authority Omaha Public Power District

ORI, Inc. Overlook Hospital

Overseas Development Council Owens-Corning Fiberglas Corporation

Owens-Illinois, Inc.

Paccar, Inc.

Pacific Mutual Life Insurance Pacific Resources, Inc. Pako Corporation Palco, Inc.

Paper Converting Machine Company

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Pendleton Woolen Mills Penn Virginia Corporation Pennfield Corporation Pennsylvania Blue Shield Pennsylvania Medical Society Pennsylvania National Insurance Pennsylvania Power & Light Company

Pennwalt Corporation Pentagon Federal Credit Union Peoples Gas Light & Coke Company Peoples Natural Gas Company, Inc.

Peoples Savings Bank Peoples Security, Maryland

Pepsi-Cola

Perkin-Elmer Company

Perpetual American Federal Savings & Loan

Pfizer, Inc. Philips Coal Company

Piedmont Natural Gas Pillsbury Company

PIMA County Governmental Center

Pioneer Savings and Loan

Pittsburgh & Lake Erie Railroad Company

Pittsburgh National Bank

Pizza Hut, Inc.

Plains Electric Generation & Transmission Cooperative Planning Research Corporation Planters Bank & Trust Company

Pontiac State Bank

Poole Equipment Company, Gregory

Portland General Electric

Power Authority of State of New York

PPG Industries PQ Corporation

Preferred Risk Mutual Insurance Company Presbyterian Hospital of New York City

Price Associates, Inc., T. Rowe

Price Brothers Company

Protective Life Insurance Company

Provident Life & Accident Insurance Company

Provident National Bank Public Broadcasting Service

Public Service Company of New Mexico

Puget Sound National Bank Puritan-Bennett Corporation

Racal-Milgo, Inc. Rainier National Bank

Rapistan, Inc. Raymond Corporation

Raymond International Raytheon Company Reading & Bates Corporation

Recognition Equipment Michael Reese Hospital

Regional Transportation Authority Research Triangle Institute

Research-Cottrell, Inc.

Rexham Rexnord, Inc. Reynolds Metals Richardson-Vicks, Inc. Riggs National Bank Riss International Roadway Express, Inc. Rockefeller Brothers Fund Rogers Corporation Rouse Company Royal Bank of Canada

Royal Insurance Company Royster Company Ryan Homes, Inc. Ryder System, Inc.

Safeguard Industries, Inc. Saga Corporation Sanders Associates, Inc. Sandia Corporation Sandvik, Inc. Santa Fe Railroad

Santee Cooper/S. Carolina Public Service Authority Schenkers International Schering-Plough Corporation

Schreiber Foods, Inc. Schroders, Inc.

Schumaker & Company, F. Scott Paper Company Sears, Roebuck and Company Security Benefits Group Sentry Insurance Company Shaklee Corporation

Shawmut Bank of Boston, N.A.

Sherex Chemical Corporation Siemens Corporation

Sierra Pacific Power Company

SIFCO Industries, Inc. Signode Corporation Sioux Valley Hospital Association Sloane Manufacturing, R & G

Society For Savings Society of Manufacturing Engineers

Sola Optical U.S.A., Inc. Solar Energy Research Institute Soltex-Polymer Corporation Sonoco Products Company Soo Line Railroad Company South Jersey Industries, Inc. South Suburban Hospital Southeast Bank, N.A.

Southern Company Services

Southern Pacific Transportation Company

Southwest Research Institute

Southwestern Public Service Company Sperry Systems Management

SPS Technologies

St. Luke's Episcopal & Texas Children's Hospital

St. Luke's Hospitals (Fargo)

St. Mary's Medical and Health Center

St. Paul Companies, Inc. St. Paul Fire and Marine

St. Vincent's Hospital and Medical Center St. Vincent's Hospital (San Francisco)

Staley Manufacturing Company, A.E. Stanadyne, Inc.

Standard Oil of California Standard Oil of Ohio

Stanhome, Inc.

State Department Federal Credit Union State Farm Insurance Companies State Merit System (Georgia) State of Wisconsin Statesman Group, The

Stauffer Chemical Company Steelcase, Inc. Steiger-Tractor, Inc.

Storer Broadcasting Company Strategic Planning Association

Suburban Bancorporation Suburban Propane Gas Sun Chemical Company Sun Company, Inc.

Sunday School Board of Southern Baptists

Sunpapers, The

Supermarket General Corporation Susquehanna Corporation Sverdrup/Aro Technology, Inc.

Syscon Corporation

Systems Research Laboratories

Talon **Tektronix**

Tenneco Oil Company-Processing and Marketing Tennessee Valley Authority Terra Chemicals International, Inc. Tesoro Petroleum Corporation

Tetley, Inc.

Texas Federal Saving and Loan

Texas Instruments

Texas Oil & Gas Corporation Texas Utilities Services, Inc.

Textron Inc. Thermo Electron

Third National Bank and Trust of Dayton

TIAA-CREF Time Life Books Timex Corporation Timken Company, The Tonka Corporation Topps Chewing Gum, Inc. Toronto Dominion Banchares Touche, Ross & Company

Tower Federal Credit Union Townsend-Textron Cherry Fasteners

Trailer Train Company Transamerica Corporation Travelers Insurance Company, The

Travenol Laboratories Triangle Corporation Triangle Publications, Inc.

TRW

Uarco, Inc. UGI Corporation

Unigard Mutual Insurance Company

Union Carbide Corporation

Union Mutual Life Insurance Company Union Pacific Railroad Company Union Special Corporation Union Tank Car Corporation Unit Rig & Equipment Company United Nuclear Corporation

United Services Life Insurance Company

United Technologies United Telecommunications United Virginia Bank

United Way of Southeast Pennsylvania

Universal Oil Products

University Computing Company University Hospitals of Cleveland

University of Alaska University of California

University of Utah Research Institute

Upjohn Company

Upstate Milk Cooperative

Bank of Canada
Student Loan Marketing Association
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U.S. Brewers Association, Inc.

U.S. Gypsum Company

U.S. Leasing International, Inc.

U.S. Life Corporation

U.S. Synthetic Fuels

Utah International, Inc.

Utah Power and Light Company

Utelcom, Inc.

Valero Energy Corporation Vallen Corporation Valley National Bank Versa Technologies

Volunteer Electric Cooperative

Virginia Chemical Corporation Virginia National Bank

Wagner Electric Company Sam P. Wallace Company

Ward Foods Warner & Swasey Company Washington National Corporation Washington Post, The Washington Public Power Supply System Wausau Homes, Inc. Wesley Medical Center West Penn Motor Club Western Forge Corporation Western Life Insurance Western Publishing Western Union International

Western Union Telegraph

Westin Hotels

Wickland Oil Company Amherst H. Wilder Foundation John Wiley & Sons, Inc.

Williams Brothers Engineering Williams Companies

Williams International Wisconsin Physician Service Wisconsin Public Service Corporation Wool Bureau, Inc. Woolworth Company, F.W.

Barry Wright Corporation Wrigley Jr. Company, Wm. Wyman-Gordon Company YMCA of the United States

Zale Corporation Zayre Corporation Zenith Radio Corporation Zurich Insurance Company

C

APPENDIX C

Detailed Description of Hay

Job Evaluation Methodology

The Hay Guide Chart-Profile Method of Job Evaluation

1982

Alvin O. Bellak, Ph.D. GENERAL PARTNER

THE HAY GROUP



HAY

The Hay Guide Chart-Profile Method of Job Evaluation

Alvin O. Bellak, Ph.D.

The Guide Chart-Profile Method of Job Evaluation was conceived by the Hay Group in the early 1950's. Its roots are in factor comparison methods in which Edward N. Hay was a pioneer. In its evolved form, it has become the most widely used single process for the evaluation of management, professional and technical jobs in existence. It is used by more than 4,000 profit and nonprofit organizations in some thirty countries.

The Hay organization was founded in 1943. While job evaluation processes of various kinds had existed for many years prior to that date, they were applied for the most part to factory and clerical positions. "Edward N. Hay and Associates," the founding organization, thought it not only had a better "mouse trap", its own factor comparison method, but that the method could be applied effectively to exempt as well as non-exempt jobs. This was quite audacious at a time when few managers thought their jobs could be described in written form, let alone evaluated.

The Guide Charts were created in 1951 in a client situation. The consultants had led a corporate committee in its application of the Hay Factor Comparison Method. A review board was pleased with the results but mystified as to the reasons which equated jobs in different functions to each other. As one member put it, "Tell me again on what precise premises this sales job was equated to that manufacturing job." It became apparent that to repeat endlessly an explanation of factor comparison processes would be hopeless. What was needed was a record for present and future use which would show exactly the descriptive considerations and their quantitative measures which entered into each evaluation. This forced a search for the basic reasons, arranged in some kind of rational order, on a scale. Thus, the Guide Charts came into being. It is important to note that the creation came through an inductive process in a real situation. It required a deep understanding of jobs and organizations as well as scaling techniques.

The creators of the Guide Chart-Profile Method made four critically important observations:

 While there were many factors one could consider (indeed, some methods had dozens), the most significant could be grouped as representing the knowledge required to do a job, the kind of thinking needed to solve the problems commonly faced, and the responsibilities assigned.

- Jobs could be ranked not only in the order of importance within the structure of an organization, but the distances between the ranks could be determined.
- 3. The factors appeared in certain kinds of patterns that seemed to be inherent to certain kinds of jobs.
- 4. The focus of the process of job evaluation must be on the nature and requirements of the job itself, not on the skills or background or characteristics or pay of the job holder.

The Guide Chart-Profile Method

What evolved was a three-factor codification with a total of eight elements (see Exhibit 1):

KNOW-HOW

The sum total of every kind of capability or skill, however acquired, needed for acceptable job performance. Its three dimensions are requirements for:

- Practical procedures, specialized techniques and knowledge within occupational fields, commercial functions, and professional or scientific disciplines.
- •• Integrating and harmonizing simultaneous achievement of diversified functions within managerial situations occurring in operating, technical, support or administrative fields. This involves, in some combination, skills in planning, organizing, executing, controlling and evaluating and may be exercised consultatively (about management) as well as executively.
- ••• Active, practicing person-to-person skills in work with other people.

PROBLEM SOLVING

The original, self-starting use of KNOW-HOW required by the job to identify, define, and resolve problems. "You think with what you know." This is true of even the most creative work. The raw material of any thinking is knowledge of facts, principles, and means. For that reason, PROBLEM SOLVING is treated as a percentage of KNOW-HOW.

PROBLEM SOLVING has two dimensions:

- The environment in which thinking takes place.
- •• The challenge presented by the thinking to be done.

ACCOUNTABILITY

The answerability for action and for the consequences thereof. It is the measured effect of the job on end

[&]quot;Prepared for Handbook of Wage and Salary Administration," Second Edition, being published by McGraw-Hill. All rights reserved.

	ibit 1	ľ	• • •	READT	HOF	MANAG	EMENT	KNOW	·HOW		_	
ILLUSTRATIVE GUIDE HAY CHART KNOW-HOW		NONE OR MINIMAL Performance or supervision of an activity (or activities) highly specific as to objective and content, with appropriate awareness of related activities.				II. RELATED Operational or conceptual integration or coordination of activities which are relatively homogeneous in nature and objective.			III. DIVERSE Operational or conceptual integration or coordination of activities which are diverse in nature and objectives, in an important management area.			
	• • Human Relations Skills		2	3	1	2	3	1			4	
	A. BASIC	50	57	56	66	76	87	+	2	3	4	
	Besic work routines plus work indoctrination.	57	66	76	76	87	100	87	100	115	1	
E		66	76	87	87	100	115	100	115	132	ı	
EDGR	B. ELEMENTARY VOCATIONAL	56	76	87	87		<u> </u>		 	+	4	
3	Familiarization in uninvolved, standardized work routines and/or use of simple equipment and machines.	76	87	100	100	100	115	115	132	152	1	
2	and or simple equipment and machines.	87	100	115	115	115	132	132	152	175	1	
ا بـ	C. VOCATIONAL		 			132	152	152	175	200	1	
CTICA	Procedural or managed and	87	100	115	115	132	152	152	175	200	1	
5	Procedural or systematic proficiency, which may involve a facility in the use of specialized equipment.	100	115	132	132	152	175	175	200	230	I	
≨ .		115	132	152	152	175	200	200	230	264	ı	
7	D. ADVANCED VOCATIONAL	115	132	152	152	175			 		t	
- [Some specialized (generally nontechnical) skill(s), however acquired, giving additional breadth or depth to a generally	132	152	175	175	200	200	200	230	264	l	
	single functional element.	162	175	200	200	230	264	284	264 304	304	1	
-	E. BASIC TECHNICAL - SPECIALIZED							204	304	350	1	
	Sufficiency in a technique which requires a gresp either of	152	175	200	200	230	264	264	304	350	ĺ	
	involved practices and precedents; or of scientific theory and principles; or both.	175	200	230	230	264	304	304	350	400	l	
	F. SEASONED TECHNICAL - SPECIALIZED	200	230	264	264	304	350	350	400	460		
1	Proficiency, calned through wide avecuses	200	230	264	284	304	350	350			Γ	
	combines a broad graso either of involved practices and	230	264	304	304	350	400	400	400 460	460	ı	
L	precedents or of scientific theory and principles; or both.	264	304	350	350	400	460	460	528	528 608		
1	G. TECHNICAL - SPECIALIZED MASTERY								520	908	┞	
	Determinative mastery of techniques, practices and theories	284	304	350	350	400	460	460	528	608		
1	galand a seasoning and/or special development.			,	400	460	E70	[408	700	ı	

				•• THI	NKING CHA	LLENGE
		GUIDE HAY CHART	1. REPETITIVE	2. PATTERNED	3. INTERPOLATIVE	4. ADAPTIVE
		PROBLEM-SOLVING	identical situations re- quiring solution by sim- ple choice of learned things.	Similar situations re- quiring solution by dis- criminating choice of learned things.	Differing situations re- quiring search for solu- tions within area of	Variable situations quiring analytical, terpretive, evaluat
_	Thini	cing guided or circumscribed by:			learned things,	and/or construct thinking.
	A .	STRICT ROUTINE	10%	14%	19%	25%
1		Simple rules and detailed instructions.				
\vdash			12%	16%	22%	29
l	B.	ROUTINE	12%	16%	22%	29%
		Established routines and standing instruc- tions.	14%	19%		
r	C.	SEMI-ROUTINE	14%	19%	25%	33
l		Somewhat diversified procedures and pre-	'''	13%	25%	33%
L		cedents.	16%	22%	29%	389
	D.	STANDARDIZED	16%	22%	29%	38%
l		Substantially diversified procedures and specialized standards				
L			19%	25%	33%	439
۱ '	E.	CLEARLY DEFINED	19%	25%	33%	43%
ļ		Clearly defined policies and principles.				
H			22%	29%	38%	509
 	٠.	BROADLY DEFINED	22%	29%	38%	50%
		Broad policies and specific objectives.	25%			
-		GENERALLY DEFINED		33%	43%	57%
		General policies and ultimate goals,	25%	33%	43%	57%
		- Parada and anning grain,	29%	38%	50%	66%
H	١.	ABSTRACTLY DEFINED	29%	38%	50%	66%

	• • IMPACT OF JOB ON END RESULTS					ILL	USTRA	TIVE							
REMOTE: Informational, recording, or incidental services for use by others in relation to some important end result.						GUIDE	HAY	CHAR	т						
. (CONTRIBUTORY: Interpretive, advisory, or facilitating services for use by others in taking action.														
(SHARED: Participating with others (except own subordinates and superiors), within or outside the organizational unit, in taking					•	ACCO	UNT	ABILI	TY						
СТ (PRIMARY: Controlling impact on end results, where shared accountability of others is subordinate.	(1)	VERY INDETER Under	SMALL C RMINATE \$100M	OR .			MALL I - \$1MM			(3) M \$1MM -	EDIUM \$10MM			
1	All for use with AMI EQUIVALENT AMI EQUIVALENT														
ك	● ■ IMPACT	R	С	S	P	R	С	8	P	R	С	\$	P	R	•
•	A. PRESCRIBED	10	14	19	25	14	19	25	33	19	25	33	43	25	Ì
	These jobs are subject to: Direct and detailed instructions Close supervision	12	16	22	29	16	22	29	38	22	29	38	50	29	
		14	19	25	33	19	25	33	43	25	33	43	57	33	L
	B. CONTROLLED	16	22	29	38	22	29	38	50	29	38	50	66	38	١
	These jobs are subject to: Instructions and exablished work routines	19	26	33	43	25	33	43	57	33	43	57	76	43	l
1	Close supervision	22	29	38	50	29	38	50	66	38	50	66	87	50	l
u	C. STANDARDIZED	25	33	43	57	33	43	57	76	43	57	76	100	57	Ī
·	These jobs are subject, wholly or in part, to: Standardized practices and procedures General work instructions	29	38	50	66	38	50	66	87	50	66	87	115	65	
•	Supervision of progress and results	33	43	57	76	43	57	76	100	57	76	100	132	76	l
	D. GENERALLY REGULATED	38	50	66	87	50	66	87	115	66	87	115	152	87	ļ
0	These jobs are subject, wholly or in part, to: Practices and procedures covered by precedents or well- defined policy	43 50	57 66	76 87	100	57 66	76 87	100 115	132 152	76 87	100 115	132	175 200	100	
-	Supervisory review	├			-	 						 		⊢	
	E. DIRECTED These jobs, by their nature or size, are subject to: Broad practice and procedures covered by functional pre-	57 66	76 87	100	132	76 87	100	132	175 200	100	132 152	175 200	230	1	
	cedents and policies Achievement of a circumscribed operational activity	76	100	132	175	100	132	175	230	132	175	230	304	17	
3	Managerial direction F. ORIENTED DIRECTION	87	115	152	200	115	152	200	264	152	200	264	350	200	
0	These jobs, by their nature or size, are broadly subject to:	100	132	175	230	132	175	230	304	175	230	304	400	230	,
	Functional policies and goals General managerial direction	115	152	200	264	152	200	264	350	200	264	350	460	264	١
٥	G. BROAD GUIDANCE	132	175	230	304	175	230	304	400	230	304	400	528	304	t
4	These jobs are inherently subject only to broad policy and	152	200	264	350	200	264	350	460	264	350	460	608	350	
9	general management guidance.	175	230	304	400	230	304	400	528	304	400	528	700	400	l
•	H. STRATEGIC GUIDANCE	200	264	350	460	264	350	460	608	350	460	608	800	460	t
	These jobs, by reason of their size, independent complexity and high degree of effect on Company results, are subject	230	304	400	528	304	400	528	700	400	528	700	920	528	
	anly to dence from top-most management.	264	350	460	608	350	460	608	800	460	608	800	1056	608	1
ı		304	400	528		400	528	700	920	528	700	920	1216	700	١

results of the organization. It has three dimensions in the following order of importance:

- FREEDOM TO ACT the extent of personal, procedural, or systematic guidance or control of actions in relation to the primary emphasis of the job.
- JOB IMPACT ON END RESULTS the extent to which the job can directly affect actions necessary to produce results within its primary emphasis.
- ••• MAGNITUDE the portion of the total organization encompassed by the primary emphasis of the job. This is usually, but not necessarily, reflected by the annual revenue or expense dollars associated with the area in which the job has its primary emphasis.

A fourth factor, WORKING CONDITIONS, is used, as appropriate, for those jobs where hazards, an unpleasant environment, and/or particular physical demands are significant elements.

It is to be noted that the Equal Pay Act of 1963 reference to job-to-job comparisons based upon "skill, effort, and responsibility" relates remarkably to the 1951 Hay Guide Chart factors. Both, of course, were derived from the same large body of knowledge as to what is common and measurable in job content.

Within the definitional structure, each Guide Chart has semantic scales which reflect degrees of presence of each element. Each scale, except for PROBLEM SOLVING, is expandable to reflect the size and complexity of the organization to which it is applied. The language of the scales, carefully evolved over many years and applied to literally many hundreds of thousands of jobs of every kind, has

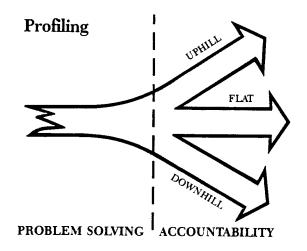
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remained fairly constant in recent years but is modified, as appropriate, to reflect the unique nature, character, and structure of any given organization.

For each factor, the judgment of value is reflected in a single number. At a later point, the size of the number is significant but, for the moment, it is the sequence of the numbers which is important. The numbers (except for the very lowest ones) increase at a rounded 15% rate. This conforms to a general principle of psychometric scaling derived from Weber's Law*: "In comparing objects, we perceive not the absolute difference between them, but the ratio of this difference to the magnitude of the two objects compared." Further, for each type of perceived physical difference, the extent of difference required in order to be noticeable tends to be a specific constant percentage. The concept of "just noticeable difference" was adopted for the Guide Chart scales and set at 15%. Specifically, it was found that a job evaluation committee, when comparing two similar jobs on any single factor, had to perceive at least a 15% difference in order to come to a group agreement that Job A was larger than Job B.

Again, for the moment, the relationship between the numbering scales on the three charts is more significant than the absolute numbers themselves. Before there were Guide Charts, it was observed that jobs had characteristic shapes. Furthermore, these shapes were, in fact, known to managers and could be verbalized easily by them if they had a useful language for expression. Grouping job content elements under the rubrics of KNOW-HOW, PROBLEM SOLVING and ACCOUNTABILITY gave them this language. Job shapes were characterized as:

- "Up-hill", where ACCOUNTABILITY exceeds PROBLEM SOLVING
- "Flat", where these factors are exactly equal
- "Down-hill", where ACCOUNTABILITY is less than PROBLEM SOLVING



*See H.E. Garrett, "Great Experiments in Psychology," Century Co., N.Y., 1930, pp 268-274, and Edward N. Hay, "Characteristics of Factor Comparison Job Evaluation," "Personnel," 1946, pp 370-375. While all jobs, by definition, must have some of each factor, however much or little, relative amounts of each can be vastly different. Therefore, one of the three shapes not only had to appear but also had to have a believable reality of its own.

Thus, an up-hill job was one where results to be achieved were a relatively more important feature than intensive thinking, i.e., a "do" job. A down-hill job was one where heightened use of knowledge through thinking was featured more than answerability for consequent results, i.e., a "think" job. A flat job was one with both "thinking" and "doing" in balance.

For example, in the context of a total business organization, a sales or direct production position would be a typical up-hill, "do" job where the emphasis is clearly and strongly upon performance against very specific, often quite measurable targets or budgets. A chemist doing basic research or a market analyst studying the eating habits of teenagers would be a typical downhill, or "think" job, where the emphasis is more on collecting and analyzing information than taking or authorizing action based on the results. A personnel or accounting manager would be typical flat jobs characterized both by the requirement to develop information for use by others (recommend a new pension plan or a means of handling foreign currency transactions) and to answer for results (the accuracy of the payroll or the timely production of books of account).

The concept of typical job shape is the "Profile" in "Guide Chart-Profile Method" and controls the relative calibration of the three Guide Charts. That is, the numbering patterns on the Guide Charts are set such that proper use produces points for the factors which, when arrayed for a given job, produce credible profiles.

It is very important to note that the Guide Chart-Profile Method gives an evaluation committee, or review board, quite uniquely, two means to assess the accuracy of its evaluation for any given job. First, it can look at the points determined for a given job, relative to similar jobs and to jobs that are clearly larger or smaller. Second, by relying on its understanding of job shapes, it can assess the job's array on the three factors and make an independent judgment as to the probable validity of the evaluation. Relative point value and profile both must make sense for an evaluation to be accepted.

The final early observation that led to the creation of the Guide Chart-Profile Method was that jobs were to be measured independently of the job holders. This was not only correct but prescient, as it turns out. There was never, ever, any consideration of the talent, education, etc. of the job holder let alone the job holder's sex, age, ethnic origin, physical condition or any other now-banned personal attribute. The further stricture, also present from the beginning, was that the pay of the job holder or the market for such positions were both irrelevant to job evaluation. Judgments were to be made only for the purpose of rank-ordering jobs and delineating the distances between ranks, i.e., to establish the relative importance of positions, top to bottom, within an organization structure.

Over the years since 1951, the fundamental principles of the Guide Chart-Profile Method have remained intact although there have been many refinements in language and application. Investigation of compensable job content elements continues and there are refinements still to come. For example, is "concentration" a discrete, measurable, element? Is working with many others in a vast, windowless office an environmental unpleasantry comparable to the noxious quality of some factory environments? Should managers, as well as blue collar workers, get WORKING CONDITIONS points for spending time in dangerous, underground coal mines? Or for frequent travel?

If one reflects on the material presented thus far, specifically, (a) Guide Chart "sizing" (adjusting the length of the scales to each particular organization), (b) modifying the scale language to reflect the character and structure of the organization, (c) absorbing new information on job content-related requirements, then it becomes very clear that the Guide Chart-Profile Method is a process, not a fixed instrument like a physical measuring device. Further, it is a relative measurement process, not an absolute one.

The theses of the Guide Chart-Profile Method thus become:

- Every job that exists in an organizational context requires some amount of KNOW-HOW, PROBLEM SOLVING and ACCOUNTABILITY.
- Semantic scales reflecting degrees of these factors can be developed and applied, with consistency and with collective agreement, by any group of knowledgeable organization members after a modest amount of training.
- 3. The Guide Chart-Profile Method will produce a relative rank order, and a measure of the distances between ranks, for all jobs that the organization will accept as reflective of its own perception of their relative importance.
- 4. The measurement principles are timeless and will hold until there is a fundamental change in the nature of jobs and in the inter-relationship of jobs that make up organization structures.
- 5. As a process guided and controlled by principles rather than by immutable rules and scales the Guide Chart-Profile Method is adaptable to the unique character of diverse jobs and organizations in changing environments.

Were these theses not correct, the Guide Chart-Profile Method would not be in the situation of increasing usage in a very changing world after more than thirty years. A very substantial number of organizations have relied on the process in excess of ten years and ranging up to over twenty-five years. They have applied the methodology through many reorganizations and to totally new product and service divisions during long periods of enormous growth and in an environment of great social change and legal challenge to the previously established order. While

the Guide Chart-Profile Method was developed for business, industrial and financial organizations, the theses have proven to hold for nearly any organization. Among the long-term users are nonprofit trade, professional, charitable and cultural organizations, federal government departments, states, local municipalities, schools and universities, and hospitals within the United States and abroad. While the application is most common for exempt positions, there is widespread usage for nonexempt clerical/office positions and growing usage for blue collar positions.

Installation of the Guide Chart-Profile Method

The objective is to place all the jobs in an organization in a sequence which represents the order and extent of their difficulty and importance within the organization.

A typical installation of the Guide Chart-Profile Method would proceed as follows:

- 1. After study of the organization, a set of Guide Charts is selected, sized, and appropriate language changes made as the initial step.
- 2. A benchmark sample of positions is selected to cover all organization levels, functions, and units where jobs are to be evaluated.
- 3. Position descriptions are prepared and accepted for evaluation when approved by the job holder and one higher level of authority.
- 4. A job evaluation committee is selected to evaluate the benchmark sample. The usual criteria for committee selection are that its members should: (a) be from diverse line and staff organizations, (b) be of roughly equivalent level within the organization, (c) hold positions somewhat higher than these to be evaluated (i.e., high enough up to have perspective but not so high as to be out of touch), and (d) be sufficiently familiar with the total organization to understand not only its purposes and structure but also its values. A member of the personnel department participates either as a formal committee-person or ex officio. Where significant numbers of job holders are among the "protected classes,"* it is especially desirable to have a member(s) from such classes on the committee.

While in-house compensation experts would be the most technically proficient group to use for installing a job evaluation program, it has proven to be more beneficial to use a group of non-experts for the benchmark effort. Since the benchmark committee is building the foundation and framework for all subsequent evaluations, it is important that it be built to reflect the values of the total organization. This

^{*}The term "protected classes," as used by the EEOC, refers to various groups, such as females, blacks, Hispanics and the physically handicapped.

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can be done best by the people who work in, and know, the departments and divisions and who will have to live with the results. A committee selected from the finance, engineering and manufacturing departments (among others) having to agree, for example, on the relative internal value of a financial analyst, a project engineer, and a production supervisor is of incalculable importance in achieving credibility for the job evaluation program.

- 5. The benchmark evaluation committee is led by a Hay consultant who acts as a combination teacher and coach. Initially, the consultant teaches the methodology in a learn-by-doing framework, then fades back as coach as the committee develops proficiency.
- The committee evaluates each job for which it accepts the job description as a fair and clear statement that it finds believable. (Descriptions not meeting these criteria are sent back to the preparer for improvement.)
- 7. The instructions to the committee are clear and specific: (a) They must make judgments within the context of the total organization, not their own unit. (b) If they accept the description, they must evaluate it as it stands without regard to any knowledge they may have of the current job holder's ability, performance, potential or pay, or the market value of such a position. (c) They must achieve a common understanding and application of the semantic scales within the principles of the Guide Chart-Profile Method. (As the committee proceeds and gains competence, aspects of the preliminary Guide Charts that are problematic are resolved.) (d) No job in the benchmark sample is finally evaluated until they are all finally evaluated, i.e., any evaluation can be changed as the committee proceeds in its learning and becomes a coherent team. (e) The committee has completed its work when all agree that the total list of evaluations makes sense even though each member may have some reservations about an evaluation here and there.
- 8. In most cases, there is a review process of some kind either done by a formal review board at a higher level of authority or through one-on-one reviews with department and division heads. New information on job content, challenges, etc., are processed by the committee to its own and the reviewer's satisfaction, thus completing the benchmark project.
- 9. All other positions are then evaluated. Depending on the size, complexity and culture of the organization, there are a number of ways this can be done, among which are (a) the original benchmark evaluation committee can do it all, (b) multiple committees can be appointed, with their output reconciled by the benchmark committee cum control committee, (c) several single job evaluation experts (or very small teams) can be appointed to do the evaluations in batches subject to department/division head review followed by committee reconciliation. Any

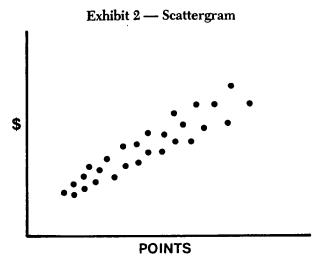
means which sustains the credibility of the evaluation process within the organization's culture is acceptable.

Use of Evaluations in Compensation Analysis

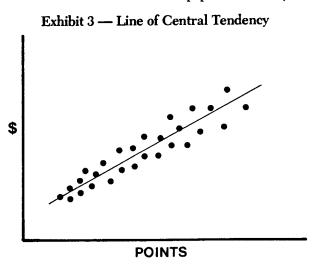
Given the final, agreed evaluations, their most common application is to serve as a basis for studies of salary practices (other uses will be mentioned later).

Internal Analysis

If we plot the pay for each job holder against the sum of KNOW-HOW, PROBLEM SOLVING and ACCOUNT-ABILITY points for his/her job, it will result in a scatter-gram, as in Exhibit 2, i.e., each dot represents one person's job points and pay. This can be done in consecutive scattergrams for actual current salary, salary midpoint assigned to the job held by the incumbent, and actual total cash compensation (i.e., salary plus cash bonus or incentive). For this explanation, we will use actual current salary only.



Through the scattergram we then draw a line of central tendency*, which becomes the "salary practice line", as in Exhibit 3. To the extent that the population is fairly ho-

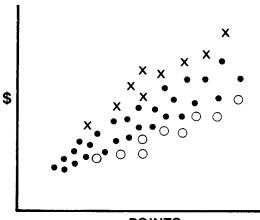


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mogeneous, the dispersion on the scattergram will be moderate and a single straight line will be a satisfactory representation of the median relationship between job size (expressed in points) and pay for the population as a whole.

To the extent that the dispersion is great, a scattergram as in Exhibit 4 will result. While one can nonetheless develop a line of central tendency, the existence of excessive dispersion suggests that the population is heterogeneous and further analysis is pursued.

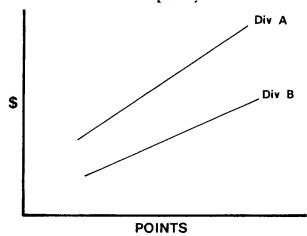
Exhibit 4 — Excessive Dispersion



POINTS

By successive hypotheses, one searches out the reason for this dispersion. If we proceed to code the plottings, say, "x" for jobs in high-tech Division A and "o" for jobs in dull old commodity product Division B, things become clear: Hidden within the whole, there are multiple pay structures as would be summarized in Exhibit 5. That is, if we plotted separate scattergrams for Division A and Division

Exhibit 5 — Multiple Pay Structures



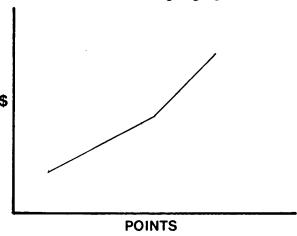
B, we would find that they have different salary practice lines. In other words, the salaries paid in Division A are greater than in Division B for jobs with the same points. Is this differential deliberate? Is it the result of generosity, or lack thereof, on the part of the division heads? Is it the result of inadequately managed or unmanageable salary systems?

If the plottings were by sex and Division, the "x's" would still be jobs in Division A but the "o's" could turn out to be not Division B but women throughout the whole organization. Since the job evaluations were made without regard to pay, sex, division, or anything other than job content, the dependent variable is pay. Higher dollars for the "x's" might be deliberate and appropriate for Division A, but what is the explanation for the "o's"? Depending on the facts, they might indicate an unacceptable, and perhaps illegal, practice.

The essence of this type of analytic exercise is to demonstrate that there is a means of searching out pay patterns that are not otherwise observable. Given an understanding of what might be buried in the data mass, management can be thoughtful in its understanding of what exists and in the development of the pay strategy it wants to follow. While it isn't likely to choose pay discrimination against women, there might well be good reason for having, or not having, multiple pay lines for various divisions.

Exhibit 6 illustrates lines of central tendency with a "dog leg" up, i.e., the higher level jobs have a higher dollar rate of increment per point. This is a different kind of heterogeneity that might reflect different pay practices for the nonexempt vs. the exempt populations or it could be the entire exempt population but with a higher pay structure for the executive group.

Exhibit 6 — Dog Leg Up



*One, or more, straight lines, drawn by sight or calculated by the least squares method, is appropriate and has proven practical and meaningful, since both axes are geometric scales. It has already been mentioned that the points on the Guide Charts increase on a compounded 15% incremental scale. Salary is also best thought of as a percentage incremental scale since one awards, for example, an 8% raise which amounts to, say, \$2,400, rather than vice versa.

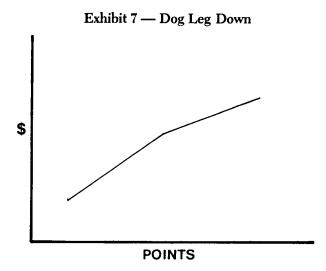
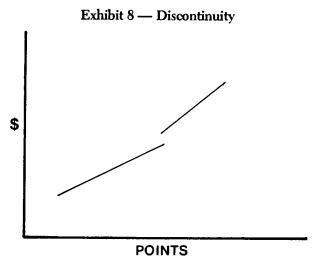


Exhibit 7 illustrates a "dog leg" down, i.e., the jobs with higher points having a lower rate of increment per point. The juncture of the two salary practice lines could be the job level where a management incentive plan kicks in. If this hypothesis is correct, then Exhibit 8 might be what would result if we plotted total cash compensation. The lower level group gets salary only, i.e., salary equals total cash. The addition of incentive awards to the top management group causes both a discontinuity and a higher practice line for management.



Proper application of the Guide Chart-Profile Method provides a unique tool for analyzing the degree of internal consistency in the existing pay program and the validity and appropriateness of disparate pay practices. While it might seem at first glance that perfect internal consistency is the goal of equitable salary administration, one should keep in mind Ralph Waldo Emerson's admonishment, "Foolish consistency is the hobgoblin of small minds". Internal equity, or simple fairness, requires that pay and internal job value be consistent only for homogeneous populations however desirable it might be for all jobs, functions and divisions in all locations. Simple logic dic-

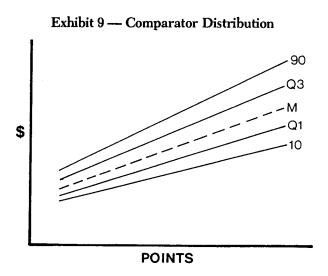
tates that, for example, the same clerical job, with the same points, will most probably be paid on a different dollar scale at different geographic locations in view of the sometimes extreme cost-of-living differences we have in the U.S. The existence of an incentive plan for only the management group will break the continuity of what might have otherwise been a perfectly consistent salary program for the total exempt population. Disparate markets periodically appear for individual jobs, whole functions, and whole lines of business. These realities must be recognized and dealt with when they appear.

The thesis, then, for the development of an effective and controllable pay structure is that one must always know the difference between internal job value and external markets for people. As in any complex phenomenon, whether a pay structure or a chemical compound, one must be able to identify the components in order to understand and manage the whole with intelligence. Given a firm baseline, i.e., carefully assigned points reflecting internal job value, the organization can knowledgeably and with strategic intent create pay structures which are rational, competitive, controllable, cost-effective, and motivational.

External Comparison

To compare one's pay line(s) with those of external organizations, job evaluation points must first be converted to a standard scale. The conversion process, conducted very carefully by highly specialized consultants, is straight forward and serves its purpose so long as the organization has not violated the basic evaluation principles and has been consistent in its application of the methodology to all units and functions.

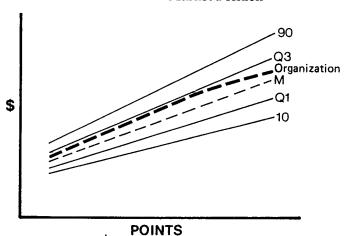
Given a standard scale, compensation lines are directly comparable from one organization to another. Hay facilitates this process by publishing annually the actual salary, midpoint salary, and total cash compensation lines of subscribers to the Hay Compensation Comparison (coded and arrayed in a manner that protects the confidentiality of each subscriber).



Thus, in the same way that an organization can compare pay practices among segments within its structure, it can compare with segments or totalities of outside organizations.

To compare its salary practice lines with those of others which use the Guide Chart-Profile Method, the organization would look to an array as in Exhibit 9. This exhibit shows the distribution of salary practice lines for the comparator organizations in percentiles. "M" is the median, or 50th percentile. The 10th and 90th percentiles are shown as are the third and first quartile lines (i.e., the 75th and 25th percentiles). An organization need only superimpose its own line on the distribution to determine, at a glance, its current position in the market, as in Exhibit 10.





As the number of users of the Guide Chart-Profile Method has grown, so has the market data base, that is, the point-to-dollar practice lines that can be arrayed. They now exist for thousands of organizations and can be broken out by industry, line of business, function, location and individual positions. They exist in some thirty countries for nationals in local currencies.

After making as many external comparisons as are useful, e.g., for salary practice, for total cash compensation practice, for segments, for functions, and so forth, the organization can position itself strategically in the market(s) for people. The selected position, represented by a line(s) drawn onto the comparison charts, is then, by simple calculation, turned into a set of midpoints and merit ranges. Thus, (a) internal equity is achieved (the salary midpoints will relate exactly to job evaluation points), as is (b) external competitiv eness (the organization will have positioned itself, i.e., priced its pay structure, in its best judgment, against the appropriate market or markets.)

The Bottom Line: Employee Motivation

One of the "in" concepts in contemporary management thinking is "system", as in "information system" or "compensation system". Simplified, it means the assemblage of parts into an integrated, comprehensive whole to support a larger purpose. In this sense, a compensation system requires the parts dwelled upon in this chapter, namely, a process for establishing internal job value and internal pay equity, and a means to access and appraise the marketplace for people. However, to become a complete system, there are more parts to be assembled. For example, there must be administrative procedures, a performance appraisal and merit award plan, a communications plan, the development and integration of benefits and extra pay elements (e.g., incentives), and so forth. All must thoughtfully be put together and managed to support the organization's human resources strategy which in turn supports the achievement of the organization's ultimate goals.

However, while assembling the compensation system to support the grand design, one must be sure not to overlook the less grandiose sounding, and very basic purpose, viz, employee motivation. Without it, the great goals will not be achieved.

Employee motivation is a very specific result to be sought from the compensation system. It is a truism that people work best when they know what is expected of them. After all, a job can be thought of as the interaction between the employer's expectations and the employee's intentions and actions. A well written job description defines the context in which the job exists and spells out its accountabilities, i.e., the end results to be achieved. Job evaluation identifies and defines its place in the spectrum. The competitive midpoint salary assigned, the merit range and additional incentives to reward individual achievement, link the critical three "P's" in a compensation system: "position, performance, and pay".

Other Applications of the Guide Chart-Profile Method

EEO compliance has become important in the United States and similar requirements exist in a number of other countries. The Guide Chart-Profile Method, properly used, provides several specific tools to aid in achieving compliance with such laws and their objectives. Its major uses can be summarized in three major areas:

- Progress Monitoring. Job measurement enables an employer to identify the high-content, highvalue jobs within the work force into which protected classes must be moved if meaningful progress toward compliance is to be made. With a demonstrable and reliable job measurement system, periodic monitoring of the relative and absolute progress of persons in terms of the value of jobs they hold (as distinguished from the number of jobs they hold) becomes possible.
- Job Requirement Validation. With Guide Chart methodology, an employer is able to define job requirements and accurately measure and compare job content and pay differences to prevent discrimination. Such validation efforts by employers are specifically required by some compliance agency regulations. The reason is to ensure that

HAY

job requirements are not inflated with the consequence that protected classes are excluded or otherwise adversely affected.

Discrimination Defense. In addition to its importance in employer compliance efforts, a rational, systematic, and professionally maintained job measurement program can provide a defense against charges of discrimination. The books can be opened, the methodology explained, and the defense mounted.

Hay methodology has been successfully used in court proceedings, administrative hearings, and labor arbitration cases to determine the extent of internal equity of compensation. In addition, the Guide Charts have been used as a basis for determining minimum qualification requirements in recruitment and selection where corrective actions are required.

Organization analysis and planning is the discipline of defining an organization's jobs and the job clusters into sections, departments, and divisions and detailing how these are related to each other. The thoroughness and objectivity of the Hay job evaluation process brings out the nature and extent of those relationships and helps to reveal such things as work duplication, overlapping of authority, and accountability vacuums. As part of assessing future strategic options, job measurement can be used to identify and make explicit the changes in organization structure which would be required.

Human resource appraisal, planning, and development can be supported by assessing current and future requirements of jobs and existing and potential capabilities of people within the same measurement framework. This is possible because jobs can only exist in human terms. Differences between current capabilities and current job requirements identify immediate needs for specific training, career development and recruiting. Differences between future job requirements and potential capabilities of current people facilitates human resource planning vis-a-vis long-term strategic organization plans, goals, and structures.

Conclusion

The Guide Chart-Profile Method has been tested and proved by continuing and expanding application. Organizations of all kinds in all major economies, and their employees, have found that it provides an accurate and clear reflection of the relative requirements that they see in jobs, because:

- 1. It is based on concrete, practical concepts and principles that are easy to define and use.
- It narrows matters of opinion to a minimum and brings sharp judgments to bear from more than one independent angle. It does not rely on single judgments, no matter how good they might be.
- By providing a framework within which measurement decisions must be made, it does away with endless committee discussions, which frequently

stall on the most basic issues.

- It forces disciplined and orderly thinking about job content, quickly highlighting vague, poorly conceived or designed jobs.
- 5. It provides a clear, understandable basis for interrelating requirements of all kinds of jobs at all levels top executives, middle managers, hourly workers, clerical workers, scientists, technical personnel, sales personnel, and professional people such as industrial physicians and lawyers. It considers the core content that is common to all jobs and can easily be adapted to reflect special determinants that affect some jobs in some organizations.

The Guide Chart-Profile Method is far more useful than ad hoc formulations which fit only singular work contexts and then only for limited periods of time. It is also far more useful than the "policy capturing" job structures which are developed to mirror or model market practices. Guide Chart measurements are independent of the market and encourage rational determination of the basis for the pricing of job content rather than automatic reactions to the forces that drove pay in the past. The Guide Chart-Profile Method works because it is a dynamic process that people apply and adapt in ways that meet needs and solve problems in the situations that they face.

U.S. Offices

Headquarters Philadelphia

229 S. 18th Street Rittenhouse Square Philadelphia PA 19103 (215) 875-2300

Atlanta

57 Executive Park South, N.E. Suite 395 Atlanta, Georgia 30329 (404) 321-4996

Boston

Five Faneuil Hall Marketplace Boston, Massachusetts 02109 (617) 367-7100

Charlotte

212 South Tryon St. Suite 950 Charlotte, North Carolina 28281 (704) 333-1591

Chicago

One East Wacker Drive Suite 3400 Chicago, Illinois 60601 (312) 644-5700

Cincinnati

1st National Bank Center 425 Walnut Street Suite 2110 Cincinnati, Ohio 45202 (513) 579-1180

Dallas

12700 Park Central Place Suite 1411 Dallas, Texas 75251 (214) 233-9767 Houston

1100 Louisiana Suite 1050 Houston, Texas 77002 (713) 658-9032

Kansas City 2460 Pershing Rd. Suite 200 Kansas City, Missouri 64108

(816) 842-5656

Los Angeles

700 South Flower St. Suite 2300 Los Angeles, California 90017 (213) 629-3921

Minneapolis

TCF Tower Suite 1318 Minneapolis, Minnesota 55402 (612) 339-0555

New York

One Dag Hammarskjold Plaza New York, New York 10017 (212) 486-6300

Pittsburgh

One Gateway Center Suite 1100 Pittsburgh, Pennsylvania 15222 (412) 263-2640

St. Louis

Clayton Mercantile Centre Suite 820 St. Louis, Missouri 63105 (314) 726-1506 San Francisco

One Market Plaza Suite 1018 San Francisco, California 94105 (415) 543-3455

San Jose

2099 Gateway Place Suite 110 San Jose, California 95110 (408) 280-0333

Seattle

110-110th Avenue Northeast Suite 312 Bellevue, Washington 98004 (206) 455-4979

Stamford

One Landmark Square Stamford, Connecticut 06901 (203) 324-4800

Walnut Creek

925 Ygnacio Valley Road Suite 100 Walnut Creek, California 94596 (415) 945-8220

Washington

1110 Vermont Avenue, N.W. Suite 710 Washington, D.C. 20005 (202) 833-9250

Athens, Auckland, Barcelona, Birmingham, Brussels, Buenos Aires, Calgary, Cape Town, Caracas, Copenhagen, Dublin, Durban, Dusseldorf, East London, Edinburgh, Frankfurt, Halifax, Helsinki, Hong Kong, Johannesburg, Lisbon, London, Lyon, Madrid, Manchester, Melbourne, Mexico City, Milan, Montreal, Paris, Port Elizabeth, Regina, Rio de Janeiro, Sao Paulo, Singapore, Sydney, Tokyo, Toronto, Utrecht, Vancouver, Wellington, Zurich.

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APPENDIX D

List of 392 GS and Equivalent Positions Selected by Grade and Series, Including Population

GS-15 & Equivalent

<u>Series</u>	<u>Title</u>	<u>Population</u>
110	Economist	727
301	Misc. Adm. & Programs	2632
345	Program Analysis	959
510	Accounting	749
602	Medical Officer	5635
680	Dental Officer	576
801	General Engineering	1950
817	Civil Engineering	503
855	Electronic Engineering	914
861	Aerospace Engineering	670
905	General Attorney	3 103
1102	Contract & Procurement	411
1301	General Physical Science	917
1310	Physics	459
1320	Chemistry	406
1515	Operations Research	375
201	Personnel Management	456
334	Computer Specialist	454
341	Administrative Officer	381
840	Nuclear Engineering	414

GS-14 & Equivalent

<u>Series</u>	<u>Title</u>	<u>Population</u>
110	Economist	986
201	Personnel Management	992
301	Misc. Admin. & Programs	3143
334	Computer Specialist	1984
343	Management Analysis	781
345	Program Analysis	1808
510	Accounting	1783
602	Medical Officer	1368
801	General Engineering	3388
810	Civil Engineering	1323
830	Mechanical Engineering	718
855	Electronic Engineering	2597
861	Aerospace Engineering	1596
905	General Attorney	3607
1102	Contract & Procurement	1126
1301	General Physical Science	914
1310	Physics	818
1320	Chemistry	825
560	Budget Analysis	607
1515	Operations Research	677
105	Social Insurance Administrator	552
512	Internal Revenue Agent	529
1224	Patent Examining	493
1825	Aviation Safety Officer	593

GS-13 & Equivalent

<u>Series</u>	<u>Title</u>	Population
105	Social Insurance Administrator	1119
110	Economist	1038
160	Civil Rights Analysis	1092
180	Psychology	1503
201	Personnel Management	1870
301	Misc. Admin. & Programs	4689
334	Computer Specialist	5623
341	Administrative Officer	628
343	Management Analysis	1709
345	Program Analysis	3099
346	Logistics Management	882
401	General Biological Science	686
460	Forestry	747
510	Accounting	3838
512	Internal Revenue Agent	3940
560	Budget Analysis	1213
602	Medical Officer	773
801	General Engineering	5251
810	Civil Engineering	3377
830	Mechanical Engineering	1998
850	Electrical Engineering	867
855	Electronics Engineering	5634
856	Electronics Technician	1093
861	Aerospace Engineering	2830
905	General Attorney	3605
1102	Contract & Procurement	2572
1165	Loan Specialist	755
1301	General Physical Science	895
1310	Physics	1324
1320	Chemistry	1580
1515	Operations Research	993

GS-13 & Equivalent (continued)

Series	<u>Title</u>	Population
1520	Mathematics	933
1825	Aviation Safety Officer	948
2003	Supply Program Management	744
2181	Aircraft Operation	1006

GS-12 & Equivalent

<u>Series</u>	<u>Title</u>	<u>Population</u>
18	Safety Management	890
105	Social Insurance Administrator	2442
110	Economist	1091
160	Civil Rights Analysis	1647
180	Psychology	761
185	Social Work	656
201	Personnel Management	2044
212	Personnel Staffing	1117
221	Position Classification	860
235	Employee Development	703
249	Wage & Hour Compliance	603
301	Misc. Admin. & Programs	6485
334	Computer Specialist	10244
341	Administrative Officer	1270
343	Management Analysis	2999
345	Program Analysis	3467
346	Logistics Management	1749
393	Communications Specialist	612
401	General Biological Science	990
460	Forestry	1394
501	General Acctg. Clerical/Admin.	715
510	Accounting	6571
512	Internal Revenue Agent	3233
560	Budget Analysis	1942
570	Financial Inst. Examining	845
610	Nurse	1450
701	Veterinary Medical Science	1171
801	General Engineering	3961
802	Engineering Technician	2342
808	Architecture	607
810	Civil Engineering	5243

GS-12 & Equivalent (continued)

<u>Series</u>	<u>Title</u>	<u>Population</u>
0.1.0	Barrier and a Barrier and a	500
819	Environmental Engineering	709
830	Mechanical Engineering	3828
850	Electrical Engineering	1740
855	Electronics Engineering	7090
856	Electronics Technician	6556
861	Aerospace Engineering	1654
896	Industrial Engineering	940
905	General Attorney	2754
993	Social Insurance Claims Examining	761
996	Veterinary Insurance Claims Examinin	ig 805
1102	Contract & Procurement	5215
1150	Industrial Specialist	739
1152	Production Control	676
1165	Loan Specialist	1560
1169	Internal Revenue Officer	1723
1170	Realty	685
1301	General Physical Science	700
1310	Physics	1115
1320	Chemistry	1842
1340	Meterology	633
1370	Cartography	934
1410	Librarian	790
1515	Operations Research	796
1520	Mathematics	1224
1670	Equipment Specialist	1980
1702	Education & Drug Technician	1142
1712	Training Instruction	685
1810	General Investigating	639
1822	Mine Safety & Health	938
1910	Quality Assurance	1777
2003	Supply Program Management	1740
2010	Inventory Management	1006
2181	Aircraft Operation	1043

GS-11 & Equivalent

<u>Series</u>	<u>Title</u>	Population
18	Safety Management	936
105	Social Insurance Administrator	3027
110	Economist	788
160	Civil Rights Analysis	1339
185	Social Work	2551
201	Personnel Management	1698
212	Personnel Staffing	1365
221	Position Classification	862
301	Misc. Admin. & Programs	5371
334	Computer Specialist	6265
341	Administrative Officer	1703
343	Management Analysis	3088
345	Program Analysis	2059
346	Logistics Management	909
401	General Biological Science	1018
457	Soil Conversation	2117
460	Forestry	2095
470	Soil Science	836
475	Agricultural Management	1695
510	Accounting	4478
512	Internal Revenue Agent	3544
560	Budget Analysis	2181
610	Nurse	7428
660	Pharmacist	1861
801	General Engineering	1116
802	Engineering Technician	6173
810	Civil Engineering	3701
830	Mechanical Engineering	2023
850	Electrical Engineering	1072
855	Electronics Engineering	1830
856	Electronics Technician	7180

GS-11 & Equivalent (continued)

<u>Series</u>	<u>Title</u>	<u>Population</u>
905	General Attorney	1068
	~	
993	Social Insurance Claims Examining	1751
1102	Contract & Procurement	4606
1150	Industrial Specialist	985
1152	Production Control	888
1165	Loan Specialist	795
1169	Internal Revenue Officer	2006
1170	Realty	1037
1320	Chemistry	1631
1370	Cartography	1834
1410	Librarian	1080
1670	Equipment Specialist	3228
1710	Education & Vocational Training	1492
1712	Training Instruction	1470
1810	General Investigating	947
1910	Quality Assurance	4376
2001	General Supply	851
2003	Supply Program Management	1523
2010	Inventory Management	2322

GS-9 & Equivalent

<u>Series</u>	<u>Title</u>	<u>Population</u>
23	Outdoor Recreation Planning	858
201	Personnel Management	970
301	Misc. Admin. & Programs	5154
318	Secretary	1779
332	Computer Operator	1752
334	Computer Specialist	3028
341	Administrative Officer	1984
343	Management Analysis	1773
345	Program Analysis	1370
404	Biological Technician	810
457	Soil Conversation	1148
460	Forestry	1400
462	Forestry Technician	1328
501	General Acctg. Clerk./Admin.	1283
510	Accounting	2146
512	Internal Revenue Agent	1385
526	Tax Technician	3315
560	Budget Analysis	1987
610	Nurse	21595
644	Medical Technologist	1364
802	Engineering Technician	5741
809	Construction Control	1313
810	Civil Engineering	1151
856	Electronics Technician	3057
895	Industrial Engineering Technician	970
962	Contract Representative	1215
993	Social Insurance Claims Examiner	1611
996	Veterans Claims Examining	1008
1102	Contract & Procurement	4026
1152	Production Control	2172

• GS-9 & Equivalent (continued)

<u>Series</u>	<u>Title</u>	<u>Population</u>
1165	Loan Specialist	889
1169	Internal Revenue Officer	853
1670	Equipment Specialist	2620
1710	Education & Vocational Training	2601
1712	Training Instruction	2481
1863	Food Inspection	2636
1910	Quality Assurance	4948
1980	Agricultural Commodity Grading	1673
2001	General Supply	1601
2003	Supply Program Management	833
2010	Inventory Management	3059
2050	Supply Cataloging	814

GS-7 & Equivalent

<u>Series</u>	<u>Title</u>	Population
105	Social Insurance Administrator	1126
203	Personnel Clerical & Assistant	2122
204	Military Personnel Clerk. & Tech.	1362
301	Misc. Admin. & Programs	6482
303	Misc. Admin. Clerk & Assistant	7125
318	Secretary	9886
332	Computer Operator	2315
334	Computer Specialist	1822
335	Computer Clerk & Asst.	1152
341	Administrative Officer	1070
344	Management Clerical & Asst.	2200
404	Biological Technician	1326
462	Forestry Technician	2032
501	General Acctg. Clerk./Admin.	1798
510	Accounting	1215
512	Internal Revenue Agent	927
525	Accounting Technician	3502
560	Budget Analysis	1085
592	Tax Accounting	3391
644	Medical Technologist	2523
645	Medical Technician	838
802	Engineering Technician	3337
809	Construction Control	1091
962	Contract Representative	4684
993	Social Insurance Claims Examiner	988
1102	Contract & Procurement	2011
1105	Purchasing	946
1152	Production Control	1379
1712	Training Instruction	1017
1863	Food Inspection	3256

GS-7 & Equivalent (continued)

<u>Series</u>	<u>Title</u>	<u>Population</u>
2001	General Supply	1244
2005	Supply Clerical & Technician	3451
2010	Inventory Management	1358
2102	Transportation Clerk & Asst.	992
526	Tax Technician	751
649	Medical Machine Technician	735
699	Health Aid & Technician	797
856	Electronics Technician	699
986	Legal Clerk & Technician	797
1060	Photography	726
1311	Physical Science Technician	719
1411	Library Technican	754
1910	Quality Assurance	727

GS-6 & Equivalent

<u>Series</u>	<u>Title</u>	<u>Population</u>
	,	
203	Personnel Clerical & Assistant	2124
204	Military Personnel Clerk. & Tech.	1315
301	Misc. Admin. & Programs	4217
303	Misc. Admin. Clerk & Assistant	6562
305	Mail & File	1023
318	Secretary	20172
332	Computer Operator	1504
335	Computer Clerk & Asst.	1086
344	Management Clerical & Asst.	1302
458	Soil Conservation Technician	1080
462	Forestry Technician	1132
501	General Acctg. Clerk./Admin.	1620
525	Accounting Technician	5219
540	Voucher Examining	900
544	Payroll	827
592	Tax Accounting	3915
621	Nursing Assistant	2774
647	Diagnostic Radiology Technician	1190
649	Medical Machine Technician	1283
699	Health Aid & Technician	802
802	Engineering Technician	819
962	Contract Representative	1460
986	Legal Clerk & Technician	1325
1105	Purchasing	1280
1106	Procurement Clerk & Assistant	825
2005	Supply Clerical & Technician	4237

GS-5 & Equivalent

<u>Series</u>	<u>Title</u>	<u>Population</u>
26	Park Technician	904
203	Personnel Clerical & Assistant	4234
204	Military Personnel Clerk. & Tech.	2502
301	Misc. Admin. & Programs	7539
303	Misc. Admin. Clerk & Assistant	12909
305	Mail & File	3038
312	Clerk Steno & Reporter	2591
318	Secretary	33897
322	Clerk Typist	2906
332	Computer Operator	1619
334	Computer Specialist	997
335	Computer Clerk & Asst.	1950
344	Management Clerical & Asst.	1566
404	Biological Technician	1306
462	Forestry Technician	3638
501	General Acctg. Clerk./Admin.	2813
525	Accounting Technician	6388
540	Voucher Examining	2326
544	Payroll	2294
545	Military Pay	1486
592	Tax Accounting	3704
621	Nursing Assistant	15680
661	Pharmacy Technician	1000
675	Medical Record Technician	1010
699	Health Aide & Technician	961
802	Engineering Technician	2499
962	Contract Representative	1241
986	Legal Clerk & Technician	1758
993	Social Insurance Claims Examiner	1103
998	Claims Clerical	2616
1087	Editorial Assistance	915

GS-5 & Equivalent (continued)

<u>Series</u>	<u>Title</u>	Population
1102	Contract & Procurement	1129
1105	Purchasing	1946
1106	Procurement Clerk & Assistant	3048
2005	Supply Clerical & Technician	10567
2134	Shipment Clerical	1145

GS-4 & Equivalent

<u>Series</u>	<u>Title</u>	<u>Population</u>
26	Park Technician	895
203	Personnel Clerical & Assistant	605
204	Military Personnel Clerk. & Tech.	3114
301	Misc. Admin. & Programs	4447
303	Misc. Admin. Clerk & Assistant	11697
305	Mail & File	8288
312	Clerk Steno & Reporter	7100
318	Secretary	14594
322	Clerk Typist	24637
332	Computer Operator	679
335	Computer Clerk Assistant	1700
350	Equipment Operator	1140
356	Data Transcriber	4976
382	Telephone Operating	1747
462	Forestry Technician	3625
501	General Acctg. Clerk./Admin.	1311
525	Accounting Technician	2845
530	Cash Processing	890
540	Voucher Examining	1279
544	Payroll	781
545	Military Pay	1046
592	Tax Accounting	1905
621	Nursing Assistant	13511
622	Medical Supply Aide/Technician	821
679	Medical Clerk	5956
681	Dental Assistant	1619
802	Engineering Technician	1785
998	Claims Clerical	5624
1106	Procurement Clerk & Assistant	3004
1411	Library Technician	640
1702	Education & Training Technician	2136
2005	Supply Clerical & Technician	8694
2134	Shipment Clerical	1037

GS-3 & Equivalent

<u>Series</u>	<u>Title</u>	Population
203	Personnel Clerical & Assistant	605
204	Military Personnel Clerk. & Tech.	779
301	Misc. Admin. & Programs	1809
303	Misc. Admin. Clerk & Assistant	8653
305	Mail & File	1072
312	Clerk Steno & Reporter	944
318	Secretary	28746
332	Computer Operator	679
350	Equipment Operator	1023
356	Data Transcriber	5100
382	Telephone Operating	1845
462	Forestry Technician	2505
621	Nursing Assistant	2741
679	Medical Clerk	1828
802	Engineering Technician	729
998	Claims Clerical	858
1106	Procurement Clerk & Assistant	869
2005	Supply Clerical & Technician	3248
2091	Sales Store Clerk	1386

E

APPENDIX E

Lists of 38 SES Jobs Evaluated

SES Position Listing

The eleven participating agencies and the 38 SES positions included in the sample are listed below.

DEFENSE LOGISTICS AGENCY

Comptroller. DLA

Executive Director, Contract Management

Deputy Executive Director, Supply Operations

DEPARTMENT OF THE AIR FORCE

Principal Deputy Assistanct Secretary (Research, Development and Logistics)

Assistant Secretary (Financial Management)

Principal Deputy Assistant Secretary (Manpower, Reserve Affairs and Installations)

Deputy Comptroller

DEPARTMENT OF THE ARMY

Administrative Assistant to the Secretary

Auditor General

Deputy Under Secretary (Operations Research)

Deputy Comptroller

DEPARTMENT OF COMMERCE

Director, Minority Business Development Agency

Deputy Under Secretary for International Trade

Assistant Administrator for Fisheries

DEPARTMENT OF HEALTH & HUMAN SERVICES

Chief of Staff

Administrator, Health Care Financing Administration

Assistant Secretary for Management and Budget

SES Position Listing (Cont'd)

DEPARTMENT OF THE INTERIOR

Associate Director, U.S. Geological Survey

Director, Minerals Management Service

Deputy Assistant Secretary

DEPARTMENT OF JUSTICE

Deputy Solicitor General & Counselor to the Solicitor General

Director, Office of Public Affairs

Director, U.S. Marshalls Service

Deputy Commissioner

DEPARTMENT OF THE NAVY

Deputy under Secretary (Financial Management) and Comptroller

Principal Deputy Assistant Secretary (Shipbuilding and Logistics)

Prinicpal Deputy Assistant Secretary (Research, Engineering, and Systems)

Deputy Chief of Naval Material

DEPARTMENT OF TRANSPORTATION

Deputy Administrator

Assistant Secretary for Administration

DEPARTMENT OF THE TREASURY

Fiscal Assistant Secretary

Deputy Commissioner

Commissioner of Customs

Director, U.S. Secret Service

SES Position Listing (Cont'd)

VETERANS ADMINISTRATION

Chief Benefits Director

Director, National Cemetery System

Associate Deputy Administrator (Information Resources Management)

Associate Deputy Administrator (Logistics)

APPENDIX F

List of 24 Bureau of Labor Statistics Positions Included

BLS Position Titles

Accounting Clerk II

Accounting Clerk III

Accounting Clerk IV

Secretary II

Secretary III

Secretary IV

Secretary V

Computer Operator I

Computer Operator II

Computer Operator III

File Clerk I

File Clerk II

File Clerk III

Typist I

Typist II

Stenographer I

Stenographer II

Order Clerk

Payroll Clerk

Key Entry Operator I

Key Entry Operator II

Switchboard Operator

Switchboard Operator/Receptionist

Messenger

G

APPENDIX G

Matrix of Jobs Matched by State

		STATE CODE														
Position Title	01	02	03	04	05	06	07	08	09	10	11	12	13			
ACCOUNTING/BUDGETING			1		"				03	10	†'	1.2	13			
1-Manager, General Accounting	Х		x	x	х	X	X	х	х	X	X	×	X	12	92.3	
2-Budget Analyst V	х	х	х	x	x	X	х	x	x	х	Х	x		12	92.3	
3-Accountant IV	х	х	х	х		X	х	х	x	х	X	х	X	12	92.3	
4-Budget Analyst III	х	х	Х	х		х	х	х	х	Х	х	x	X	12	92.3	
5-Supervisor, General Accounting	х	х	х		х	х	х	х	х	х	Х	x	Х	12	92.3	
6-Senior Accountant	х	х	х	х	х	X	Х	х	x	X	х	х	х	13	100.0	
7-Budget Analyst II	х	х	х	х		Х	х	х	х	Х	X	х	х	12	92.3	
8-Accountant I	х	Х	х	х	х	х	х	х	Х	х	х	x	X	13	100.0	
AUDITING													<u> </u>			
9-Revenue Audit Manager	х	Х	χ		Х	Х	х		Х	Х	X	х	Х	11	84.6	
10-Field Auditor V	Х	Х	х	х	Х	х	х	х	Х	Х		х	x	12	92.3	
11-Revenue Audit Supervisor	х	Х	х	х	Х	Х	х	х	х	Х	х	х	х	13	100.0	
12-Field Auditor III	x	Х	х	х	Х	х	х	x	Х	X	χ	х	х	13	100.0	
13-Field Auditor I	х	Х	х	х	Х	Х	х	х	χ	Х	χ	х	χ	13	100.0	
CLERICAL																
14-Secretary AA	х	Х	х	х	Х	χ	Х	X		Х	Х	х	χ	12	92.3	
15-Secretary A	х	Х	х	х	x	Х	х	х	х	Х	Х	х	Х	13	100.0	
16-Accounting Clerk A	х	-	х	х	х	Χ	х	х	х	-	Х	х	Х	11	84.6	
17-Secretary B	х	х	х	х	Х	X	х	х	х	х	х	x	х	13	100.0	
18-General Clerk A	х			X	Х	χ	х	х	х	х	х	х	х	11	84.6	
19-Accounting Clerk B	x	х	х	х		Х	Х	х	х		х	х	Х	11	84.6	

Position			1		- 		STATE	CODE						TOTAL	% Match Rate
Title	01	02	03	04	05	06	07	08	09	10	11	12	13		
20-Payroll Clerk		х	X	х		х	Х	X	X	1	X			 	76.9
21-Word Processing Operator A	х		х	х	X	х	х	х	x		X	X	x	11	84.6
22-General Clerk B	х			х	X	Х	х	x	x	X	X	X	X	11	84.6
23-Telephone Operator A	х	х	х	X	х		X	X	x	X	X	X	x	12	92.3
24-Secretary D	х	х	х	х	х	Х	x	X	х	X	X	X	X	13	100.0
25-Typist Clerk A	х		X	х	Х	X	x	X	x	X	X	X	X	12	92.3
26-General Clerk C	х		х	x	х	Х	X	X	x	X	X	X	-	11	84.6
27-Typist Clerk B	х	x	х	х	X	X	x	X	X	X	X	X	X	13	100.0
28-Mailroom Clerk	х	х	X	х	Х	Х	x	X	X		X	X	X	12	92.3
29-File Clerk C	х	x	Х	х	Х	Х	x	X	х	X	X	X		12	92.3
DATA PROCESSING														· -	
30-EDP Director	×	х			_	X	x	X	X	X	χ	X	X	10	76.9
31-Director, Systems and Programming	х	х		х		χ	х		x	Х	Х	Х	х	10	76.9
32-Director, Data Center Operations	х	Х		х	X	χ	х		Х	χ	X	Х	х	11	84.6
33-Manager, Systems and Programming	х	х		х	χ	χ	х		χ	Х	X	X	х	11	84.6
34-Data Base Manager	х	х		х	_	χ	х			Х	X		x	8	61.5
35-Project Leader	х	х		х		Х	х	х	х	х	χ	х	х	11	84.6
36-Computer Operations Manager	х	х		x	Х	х	х	х	х	x	Х	х	х	12	92.3
37-Senior Systems Programmer	х	х	х	х	Х	Х	х	х	х	X	x	X	x	13	100.0
38-Senior Programmer Analyst	х		Х	х	χ	X	х	х	Х		х	х	X	11	84.6
39-Systems Analyst	х	х		Х	х	Х	х	x	Х	х	х	Х	X	12	92.3
0-Shift Supervisor	х	х	х	X		х	х	x	Х	x	х	x	х	12	92.3

							STATE	CODE						TOTAL	% Matc
Position Title	01	02	03	04	05	06	07		100	1,,	1.,	T.,	T	TOTAL	. Na Le
41-Associate Data Base Analyst	X	102	X	X	103	X	X	80	09	10 X	11 X	12	13 X	8	61.5
42-Senior Programmer	X	X	1	Х	X	X	X	×	X	X	×	X	x	12	92.3
43-Supervisor, Data Entry	x	х	 	Х	X	X	x	X	x	X	X	X	X	12	92.3
44-Programmer	Х	х	x	х	Х	X	x	x	x	Х	×	X	X	13	100.0
45-Computer Operator A	x	Х	х	х	Х	Х	x	x	х		x	X	X	12	92.3
46-Lead Data Control Clerk			Х	х		х	X	X	х	 	X	-	X	8	61.5
47-Associate Programmer	х		x	х	x	х	х	x	X	х	Х	X	Х	12	92.3
48-Programmer Trainee	х	х	х	х	x	Х	х	х		x	x	X	X	12	92.3
49-Computer Operator B	Х	х	х	х	х	X	х	х	х	X	x	х	х	13	100.0
50-Data Control Clerk	X	х	х	Х	х	X	x	х	х		Х	х	х	12	92.3
51-Tape Librarian	х	x	х	X	Х	x	х	x	х	х	х	X	x	13	100.0
52-Data Entry Operator B	х	х	Х	χ	χ	х	х	х	х	х	х	Х	X	13	100.0
EMPLOYMENT SERVICES															
53-Executive Director, Employment Security		х	Х	Х	Χ	Х		X	x	Х	Х	X	Х	11	84.6
54-Director, Bureau of Job Services	х	Х	Х	χ	χ			x	х	х	х		χ	10	76.9
55-Employment Interviewer Supervisor	х	x	Х	X		х	х	x	х	x	х	Х	х	12	92.3
NGINEERING															
56-Chief Engineer	Х	х	X	Х	χ	Х		х	Х	Х	х	χ	Х	12	92.3
57-Highway District Engineer	Х	x	Х	х	χ	х	х	х	X	Х	х	χ	x	13	100.0
58-Civil Engineer IV	Х	Х	х	X		х	х	х	Х	χ	х	х	х	12	92.3
59-Civil Engineer II	х	х	x	x	х	х	x	х	х	Х	х	X	x		100.0

			·····			,	STATE	CODE						TOTAL	% Matc
Position Title	01	02	03	04	05	06	07	08	09	10	111	12	1,2		
FORESTRY		-		"	"	00	0,	00	03	10	'	12	13	-	
60-State Parks Director	X	х	x	x	х	X	x	X	X	x	X	X	X	13	100.0
61-Forester III	х	х	х	х	х	X	х			х	Х	X	X	11	84.6
62-Forester II	x	x	х	х	х	x	х			Х	Х	Х	X	11	84.6
63-Forest Ranger			х	x	x		х			X	X	Х	X	8	61.5
HIGHWAYS															
64-Superintendent, Shop & Equipment		х		х		X		X		X	Х	х	X	8	61.5
65-Highway Foreman	х	х	х	х	х	Х	χ.		χ.	X	X	X	X	12	92.3
HOSPITAL .															
66-Hospital Administrator	X	х	χ			٠X	х		Х	χ	х		Х	9	69.2
67-Director of Nursing/School of Nursing				х	X							X	х	4	30.8
68-Rehabilitation Supervisor III	х	х	x	х		Х	х	х		χ	Х	Х		10	76.9
69-Chief Pharmacist	х	х	χ	х	Х	Х	х	х	χ	-	х	х	х	12	92.3
70-Rehabilitation Supervisor I	х	х	Х	х	Х	Х	х	х	 -	χ	χ	Х	х	12	92.3
71-Chief Physical Therapist	х	х	Х	х		χ	х	х		χ	Х	X	х	11	84.6
72-Chief Occupational Therapist	x	x	х	х		χ	Х	х		χ	Х	Х	Х	11	84.6
73-Head Nurse, Medical/Surgical	x	х	х	х	х	Х	х	х	х	χ	Х	Х	Х	13	100.0
74-Laundry Manager	х	х	х	х	х	х	х	х	х	X	χ	χ	x	13	100.0
75-Occupational Therapist II	х	х	х	х	х	х	х	х	х	Х	Х	Х	х	13	100.0
76-Staff Nurse	x	х	х	х	х	х	χ	х	х	x	х	х	х	13	100.0
77-Rehabilitation Counselor I	х	х	x	х		х	х	х		х	х	Х	x	11	84.6
78-Practical Nurse	х	х	х	X	х	х	х	х	Х	х	X	х	х	13	100.0
79-X Ray Technologist	х	х	х	x		х	х	х	x	x	х	Х	x	12	92.3

							STATE	CODE						TOTAL	% Match
Position Title	01	02	03	04	05	06	07	08	09	10	Τ,,	1,0	1,.		1
HUMAN SERVICES			"	1	05	100		100	09	10	111	12	13		
80-Superintendent, Mental Hospital	X	Х	X	X	X	X	X	X	X	X	X	X	X	13	100.0
81-Senior Social Work Supervisor	x	х		Х	X	Х	Х	x	X	X	X	X	X	12	92.3
82-Social Worker	х	Х	х	х	х	х	х	х	X	X	X	x	X	13	100.0
PERSONNEL															
83-Director, Office of Personnel Services	Х	X	х	X	X	X	x	X	Х	X	X	X	x	13	100.0
84-Personnel Analyst II	x	х	х	х	Х	х	х	х	х	Х	Х	X	-	12	92.3
POLICE												-			
85-State Police Commissioner	X	Х	х	Х			x	X	X	X	X	X	X	11	84.6
86-State Police Major	х	χ	х	Х		х	х	x	X	Х	X	x	X	12	92.3
87-State Police Lieutenant	х	Х		х	Х	х	x	Х	Х	X	Х	x	X	12	92.3
88-State Police Sargent	х	х	х	х	Х	х	х		Х	X	х	X	x	12	92.3
89-State Police Trooper	х	χ	X	Х	χ	Х	х		Х	Х	X	χ	X	12	92.3
PRISONS															
90-Superintendent, Correctional Institution			χ	Х	X	X	Х		X	Х	Х	X	Х	10	76.9
91-Prison Warden	х	х		х	-		х	х	Х	X	Х	Х	х	10	76.9
92-Corrections Officer V	х			х	х	Х	X	х	Х	X	Х	Х	Х	11	84.6
93-Corrections Officer IV	х	Х	х	х	х	х	х	Х	х	Х	χ	х	х	13	100.0
94-Corrections Officer III	х	Х	х	х	х	χ	х	х	Х	х	х	X	Х	13	100.0
95-Probation Officer I	Х		X	Х	X	X	х	х	х	х	х	Х	х	12	92.3
96-Corrections Officer I	х	х	x	х	х	х	х	х	x	X	Х	Х	х	13	100.0

Position				-,,-			STATE	CODE						TOTAL	% Match Rate
Title	01	02	03	04	05	06	07	08	09	10	1,,	Ţ.,		IOIAL	Na Ce
PURCHASING							07	00	109	10	111	12	13		
97-Purchasing Director	X	x	х	x	X	 	X	X	+x	X	X	x	X	12	92.3
98-Purchasing Agent III	х		x	X	х	X	х	X	X	X	X	X	X	12	
99-Purchasing Agent II	х	Х	x	X	X	X	x	X	X	X	X	X	X	13	92.3
MISCELLANEOUS -			ļ -							-		 ^	<u> ^ </u>	13	100.0
100-Secretary of Transportation	X	X	х	X	X	X	X	X	X	X	X	X	X	13	100.0
101-Insurance Commissioner	x	х	х	X	х	Х	х	.х	X	Х	X	X	X	13	100.0
102-Tax Examiner III	х	x	х	Х	х	X	x	x		Х	X	X	X	12	92.3
103-Biologist	х		х	X	х	Х	х	x	X		X	X	X	11	84.6
104-Senior Librarian	Х	x	х	х	х	X	x	X	x	X	X	X	X	13	100.0
TOTAL NUMBER	97	86	86	100	80	97	99	89	89	92	102	99	99	1215	
% Match Rate	93.3	82.7	82.7	96.2	76.9	93.3	95.2	85.6	85.6	88.5	98.1	95.2	95.2	89.9	

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APPENDIX H

Prevalence of Benefit Practices

1002 have plan 1002 have plan has plan	DEATH BENEFITS	1983 pase	Emp1	Federal Employees
Life	Basic Group Life Supplemental Group Life Basic Accidental Death Supplemental Accidental Death	have have have have	have have have have	
bility bility 100% have formal plan 110% have plan 111ty (Other 111th (High Option Blue Cross/Blue Shield) used for Federal Employees 11 Plan 110% have plan	luntary Accidental Death pendent Group Life oup Survivor Income siness Travel Accident ecutive Group Life	have have have have have	have plan have plan have plan have plan have plan management	
1 Plan 100% have plan 100% have formal plan has plan 70% cover both early 92% cover both early and normal retirees 78% have plan 89% cover as an eligible expense under major medical 17% have plan 100%	nort Term Disability ong Term Disability (Other han pension disability)	100% have formal plan 93% have plan	100% have formal plan 31% have plan	has formal plan no plan
e de cover both early 2% cover both early 20% have plan and normal retirees 46% have plan expense under major medical 20% have plan 20%	ospital/Medical Plan	100% have plan	100% have formal plan	has nlan
18% have plan 46% have plan 89% cover as an eligible expense under major medical 17% have plan 100% have plan 13% have plan 19%	etiree Coverage	cover both	92% cover both early and normal refirees	covers all retirees
17% have plan 0% have plan 100% have plan 100% have plan 13% have plan 0% have plan 13% have plan 0% have plan 19% have plan	escription Drugs	have plar cover as expense u	have plar cover as expense u	no plan covers as an eligible expense under major medical
91% have plan 100% have plan 13% have plan 0% have plan 20% have plan 0% have plan 19% have plan 7% have plan 0% have plan 19% have p	sion Care MENT BENEFITS			no plan
43% have plan 0% have plan no 20% have plan 0% have plan no 19% have ESOP or PAYSOP 0% have plan no 0% have pl	nsion Plan 1(k) rift Plan/Matching Stock	have have	have have	has plan no plan
19% have ESOP or PAYSOP 0% have plan no ock Purchase Plan 7% have plan no Plan 18% have plan no Plan no Plan 18% have plan no	Purchase Plan ofit Sharing/Stock Bonus	have plan have plan	have have	
Os nave pian	OP/PAYSOP scount Stock Purchase Plan ction 457 Plan	have ESOP or have plan have plan	have have have	

Prevalence of Benefit Practices

	ннвс 1983		
EXECUTIVE PERQUISITES	Database	State Employees	Federal Employees
Stock Option Plan	55% provide	0% provide	do not provide
Stock Appreciation	29% provide	0% provide	100
Phantom Stock/Dividend Units	7% provide	0% provide	100
Executive Stock Bonus	6% provide	0% provide	100
Executive Stock Purchase	3% provide	0% provide	nor t
Performance Shares/Units	18% provide	0% provide	not
Front-end Bonuses	6% provide	0% provide	not
Supplemental Retirement	38% provide	0% provide	not
Executive Dining Room	18% provide	0% provide	not
Physical Exam (Non pre-employment)	72% provide	15% provide	
Special Medical Reimbursement		0% provide	do not provide
Special Vacation Schedule		0% provide	
Split Dollar Insurance	8% provide	0% provide	
special Executive Group Lite	20% provide	23% provide	
	20% provide	0% provide	do not provide
walver of Insurance Walting Periods		0% provide	do not provide
Education Frogram	10% provide	0% provide	do not provide
Pre-retirement Counseling	7% provide	0% provide	
Deserved Compensation Plan		0% provide	
Company Cars or Car Allowance	69% provide	0% provide	do not provide
key man Life Insurance		0% provide	
Anout cont. Cont. Liability insurance		0% provide	do not provide
Apartments/5ultes/Houses	9% provide	0% provide	do not províde
Morrgages (other than transfer) and Loans	5% provide	0% provide	do not provide
rersonal Legal Services		0% provide	do not provide
rersonal financial Counseling	-	0% provide	do not provide
rax Freparation Services		0% provide	do not provide
Employment Contracts	-	0% provide	do not províde
Special Farking		0% provide	do not provide
country Club	44% provide	0% provide	do not provide
Lunch Club	47% provide	0% provide	do not provide
Athletic Club	16% provide	0% provide	do not provide
Company Alreratt		0% provide	do not provide
raid opouse Travel Expenses		0% provide	do not provide
Danotter and officer in its		0% provide	do not provide
Colline named of the Liability insurance		0% provide	do not provide
Golden Parachutes	8% provide	0% provide	do not provide
Dorogontogon and the contraction of the contraction	•		

Percentages are based on the number of respondents to each perquisite practice (except Stock Plans where percentages are based on the number of stockholder companies).

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EATH BENEFITS (Cont'd)	HHBC 1983 Database	State Employees	Federal Employees
asic Group Life Insurance			
Retirement Provisions	37% cancel coverage 31% make a one time reduction on normal retirement date 25% reduce at retirement and make further reduction(s) thereafter	54% cancel coverage 31% make a one time reduction on normal retirement date	makes a reduction on normal retirement date and further reduction(s) thereafter
Cost of Retiree Coverage	89% are employer paid	67% are employer paid 33% are employee paid	involves cost- sharing
upplemental Group Life	58% have plan	46% have plan	has plan
Cost	74% are employee paid	67% are employee paid 17% involve cost sharing 17% are employer paid	employee paid
Basis of Benefit	85% are based on earnings multiple	67% are based on earnings multiple 33% are based on a flat amount	based on earnings multiple
Amount of Benefit	42% are 1 times pay 28% are 2 times pay	33% are 1 times pay 33% are 1.5 times pay 34% are 2 times pay	allows the employee to choose from

State Employees	67% have no maximum has a maximum flat dollar amount of 5 times pay of coverage	67% continue coverage in continues coverthe event of disability age in event of disability	67% cancel coverage makes a reduction 17% continue coverage on normal retire- in full 17% make a reduction on further reduc- retirement date and tion(s) thereafter further reduction(s)	54% have plan has plan	43% are employer paid involves cost shar-29% are employee paid ing 29% involve cost sharing	86% are based on a flat based on earnings amount, of these, multiple	
HHBC 1983 Database	53% have a maximum flat dollar amount of coverage, of these, 29% are \$100,000-\$199,999 22% are > \$400,000 21% are \$200,000-\$299,999	93% continue coverage in the event of disability	75% cancel coverage	74% have plan	86% are employer paid	78% are based on earnings multiple, of these,	
DEATH BENEFITS (Cont'd) Supplemental Group Life	Maximums	Disability Benefit	Retirement Provisions	Basic Accidental Death	Cost	Basis of Benefit	

Prevalence of Benefit Practices

훤 Decla	ATH BENEFITS (Cont'd)	HHBC 1983 Database	State Employees	Employees
ջ assifie	istc Accidental Death			
ed and Approved	Max1mums Max1mums ax1mums	77% have a maximum flat dollar amount of coverage, of these, 33% are \$50,000-\$100,000 27% are \$100,000-\$150,000 25% are \$200,000-\$250,000 13% are \$300,000-\$400,000	Not Applicable	has no maximum amount of coverage
ূরী For R	pplemental Accidental Death	17% have plan	23% have plan	no plan
وا eleas	luntary Accidental Death	35% have plan	23% have plan	no plan
se 20	Cost	97% are employee paid	100% are employee paid	
12/11/21 : (Basis of Benefit	86% are based on a flat amount 12% are based on earnings multiple	100% are based on a flat amount	
CIA-RDI	Amount of Benefit	90% are the employee's choice	100% are the employee's choice	
<u>ĕ</u> P89-(pendent Group Life	36% have plan	31% have plan	has plan
00066R	Cost	69% are employee paid 22% are employer paid	100% are employee paid	employee paid
0008002	Maximum of Spouse	42% are \$1,000-\$3,000 27% are \$5,000	75% are \$2,000	\$5,000
210001-3	Maximum of Children	39% are \$1,000 26% are \$2,000 8% are \$2,500	50% are \$2,000 25% are \$2,500 25% are \$1,000	\$2,500
Gre	Group Survivor Income	11% have plan	0% have plan	no plan

Prevalence of Benefit Practices

O DEATH BENEFITS (Cont'd)	HHBC 1983 Database	State Employees	Federal Employees
w Business Travel Accident	72% have plan	8% have plan	no plan
p Cost	98% are employer paid		
Basis of Benefit A A	55% are based on a flat amount 38% are based on earnings multiple		
Executive Group Life	20% have plan	23% have plan for management	no plan

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JISABILITY BENEFITS	HHBC 1983 Database	State Employees	Federal Employees
short Term Disability (Sick Leave)	100% have formal plan	100% have formal plan	has formal plan
	97% are salary continuance plans	100% have salary continuance plans	has salary con- tinuance plan
Eligibility	54% have immediate eligibility 46% require a waiting period	80% have immediate eligibility	has immediate eligibility
Salary Continuance Plans	48% have schedule that varies with service 28% are based on accumu- lation of days	100% are based on accumulation of days	based on accumulation of days
Number of Days Accumulated	45% credit 12-12.9 days 18% credit 10-10.9 days 8% credit 15-15.9 days	38% credit 12-12.9 days 31% credit 15-15.9 days 15% credit 13-13.9 days	credits 13 days
Maximum Number of Days Accumulated	30% have no maximum 23% have 60-99 days 16% have 121-180 days	85% have no maximum 15% have > 180 days	has no maximum
Amount of Benefit	er of Weeks ervice Relat		
2 Wks. 4 Wks. 6-13 Wks. 13.1-17.9 Wks. 18.0-25.9 Wks. 26 Wks.	2 Yrs. 8 Yrs. 18 Yrs. Max. 13% 2% 1% 2% 27% 4% 3% 2% 34% 51% 19% 17% 2% 12% 6% 2% 2% 15% 24% 8% 3% 12% 37% 55%		

DISABILITY BENEFITS (Cont'd) (Other than pension disability)	HHBC 1983 Database	State Employees	Federal Employees
Long Term Disability	93% have plan	31% have plan	no plan
Eligibility	55% require a waiting period 32% have immediate eligibility	50% have immediate eligibility 25% require first of the month following employment 25% require a waiting period	
Cost	63% are employer paid 21% involve cost sharing	50% are employee paid 25% involve cost sharing 25% are employer paid	
Exclusion Period	62% begin LTD benefits after 6 months of disability 15% begin LTD benefits after 3 months of disability	75% begin LTD benefits after 3 months of disability 25% being LTD benefits at the end of STD	
Amount of Benefit	90% base benefit on a flat percentage of monthly earnings	100% base benefit on a flat percentage of monthly earnings	
Plans Based on a Flat Percentage	60% pay 60% of monthly earnings 18% pay 50% of monthly earnings	50% pay 60% of monthly earnings 25% pay 50% of monthly earnings 25% pay 66%-67% of monthly earnings	
Maximum Benefit	79% have monthly maximums; of these, 25% are \$3,000 23% are \$2,000-\$2,999 20% are \$4,001-\$5,000 18% are \$3,001-\$4,000	100% have monthly maximums, of these, 50% are \$3,000 25% are \$1,000 25% are \$1,500-\$1,999	
Social Security Offset	<pre>51% offset primary social security 30% offset family social security</pre>	50% offset family social security directly 25% offset primary social security directly 25% offset all social security when benefits from all sources exceed 70%	

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ary charges, of these, pay 100% of reasonable reasonable and custom-

82%

and customary charges

charges

HEALTH CARE	HHBC 1983 Database	State Employees	Federal Employees Service Benefit Plan High Option
Hospitalization/Medical	100% have plan	100% have plan	has plan
Eligibility Cost	46% have immediate eligibility 31% require first of the month following employment	33% require first of the month following employment 22% have immediate eligibility	has immediate eligibility
Employee Coverage	66% are employer paid 34% involve cost sharing	54% involve cost sharing 46% are employer paid	involves cost sharing
Dependent Coverage	57% involve cost sharing 39% are employer paid	77% involve cost sharing 23% are employer paid	involves cost sharing
Plan Design	62% have basic plan coverage with supplemental major medical 32% have comprehensive	77% have basic plan coverge with supplemental major medical 23% have comprehensive major medical	has basic coverage with supplemental major medical
Basic Plan Coverage	major medical		
Hospitalization	94% pay 100% of reasonable and customary charges	90% pay 100% of reasonable and customary charges	pays 100% of reasonable and customary charges
Maximum	82% have a maximum based on the number of days of care, of these, 51% pay for 365 days of care 24% pay for 180 days of care	90% have a maximum based on the number of days of care, of these, 56% have a maximum of 365 days of care 22% have a maximum of 120 days of care	has no maximum
Surgical Coverage	65% have basic plan coverage, of these, 73% reimburse based on reasonable and custom-	90% have basic plan coverage, of these, 89% reimburse based on 100% of reasonable	has basic plan coverage reimburses based on 80% of reasonable

	Transc of penetic 11	וומררורב	
SALTH CARE (Cont'd)	HHBC 1983 Database	State Employees	Federal Employees Service Benefit Plan High Option
ısic Plan Coverage			
Outpatient X-Rays and Lab	84% have basic plan coverage	60% have basic plan coverage	has basic plan coverage
Doctor's Visits in the Hospital	55% have basic plan coverage	90% have basic plan coverage	has basic plan coverage
Doctor's Office Visits	84% cover under major medical only	50% have basic plan coverage 30% cover under major medical only	covers under ma- jor medical only
pplemental Major Medical			
Deductible Amount	71% have a \$100 deductible	50% have a \$100 deductible 30% have a \$50 deductible	has a \$200 deductible
Family Deductible	78% have a maximum family deductible; of these, 37% are \$200 32% are \$300 22% are \$\$200	80% have a maximum family deductible, of these, 38% are < \$200 25% are \$200 25% are \$200	has a maximum family deductible of \$400
Coinsurance (cont'd on following page)	42% have coinsurance based on eligible charges; of these, 96% have initial coinsurance of 80% of the eligible charges 41% have breakpoint of \$2,000-\$2,999 34% have breakpoint of \$5,000-\$10,000 99% pay 91-100% of the remaining eligible charges	50% have coinsurance based on individual out-of-pocket expenses 60% have initial coinsurance of 80% of eligible charges 40% have initial coinsurance of > 90% 60% have breakpoint of \$500 20% have breakpoint of \$1,000 100% pay 99-100% of the remaining eligible charges	has coinsurance based on family out-of-pocket expenses only; has initial coin- surance of 80% of eligible charges up to \$1,500 and pays 100% of the remaining eli- gible charges

Federal Employees Service Benefit Plan High Option		has no maximum	covers all retirees	involves cost sharing	involves cost sharing	covers as an tal eligible expense under major medical
State Employees		50% have lifetime re- instatable maximums; of these, 60% are \$1,000,000 20% are \$100,000 20% are \$250,000 instatable maximums	92% cover all retirees	42% are employer paid 42% involve cost sharing	50% involve cost sharing 25% are employer paid 25% are employee paid	62% cover as an eligible expense under supplemental major medical
HHBC 1983 Database	29% have uniform coinsurance, of these, 93% are 80%	69% have lifetime reinstatable maximums; of these, 46% are \$250,000 25% have \$1,000,000	70% cover all retirees 20% do not cover retirees	73% are employer paid 19% involve cost sharing	63% are employer paid 22% involve cost sharing	93% cover as an eligible expense under major medical
HEALTH CARE (Cont'd) Supplemental Major Medical	Coinsurance (Cont'd)	Major Medical Maximum	Retiree Coverage	Normal Retiree Coverage	Dependent Coverage	Prescription Drugs

Practices	
Benefit	
of	
Prevalence	

HEALTH CARE (Cont'd)		HHBC 1983 Database	183 ie		State	State Employees	φ	S F	Federal Employees Service Benefit Plan High Option
Dental Coverage		78% have of the 67% of the 11% of	dental planese, cover as a plane cover under liberalized	n; separate a major n	46% have	æ	separate plan		no plan
Eligibility Cost		47% requiperion 37% have eligi	require a waiting period have immediate eligibility	8 u	60% r f 40% r	equire fi ollowing equire a	require first of the month following employment require a walting period	month	
Employee Coverage		75% are	employer paid	1d	67% a 33% i	are employer involve cost	er paid st sharing		
Dependent Coverage		48% are e 47% invol	employer lve cost	paid sharing	50% a 50% i	are employer involve cost	er paid st sharing		
Basis of Coverage		84% are and of t 81%	based on customary hese, have coins which varied of covered	charges; charges; surance les by type l expense	83% a a a 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	are based or and customal of these, 60% have cod varies l	based on reasonable customary charges; hese, have coinsurance varies by type of covered expense	ble s;	
Coinsurance	Preven- tive	Basic	Reconstruc- tive	Restora- tive	Preven- tive	Re Basic	Reconstruc Restora- tive tive	estora- tive	ı
50%-69% 70%-79% 80% 90-100%	2% 2% 27% 66%	16% 9% 59% 12%	41% 41% 41% 6%	88 3% 1%%	0% 0% 0% 100%	02 02 03 100%	0% 0% 33% 67%	100% 0% 0% 0%	

Maximums Orthodontia	HHBC 1983 Database 42% have a deductible, which oraries by expense area able to all expense areas bels to all expense areas able to all expense areas annual maximum of these, sy have \$1,000 annual maximum of \$701-\$800 8% have \$1,500 annual maximum 70% cover orthodontia, 67% of these, to children 88% base coverage on R&C of these, 83% pay 50% of R&C	State Employees State Employees 67% have a nonorthodonic annual maximum, of these, 100% have \$1,000 annual maximum 67% cover orthodontia, of these, 50% limit coverage to children 50% base coverage on R&C	Federal Employees Service Benefit Plan High Option
sion Care	17% have plan	23% have separate plan 8% cover as an eligible expense under major medical	no plan

STIREMENT BENEFITS	HHBC 1983 Database	State Employees	Federal Employees
ension Plan	91% have plan	100% have plan	has plan
Cost	16% require employee contribution	69% require employee contribution	requires employee contribution
Vesting	70% have full vesting after 10 years of service	62% have full vesting after 10 years of service 31% have full vesting after 5 years of service	has full vesting after 5 years of service
Basis of Benefit	86% are final average pay plans	92% are final average pay plans 8% are money purchase plans	has final average pay plan
Basis of Final Average Pay	80% use final or highest 5 years' pay in cal- culating the pension benefit	75% use highest or final 3 years	uses final 3 years
Formula (Final pay plans)	42% provide a uniform percentage of final average pay, of these, 28% are 1.51%-1.75% 24% are 1.5% 23% are 2% 18% provide step-rate, or excess percentages per years of service 15% provide step-rate plans which are based on compensation levels	percentage of final average pay, of these, 57% are 1.51%-1.67% 14% are 1.5% 14% are 2.0% 14% are 2.5% 25% provide step-rate plans which are based on compensation levels	provides 1.5% per year for the first 5 years, 1.75% for next 5 years and 2% for the remain- ing years

RETIREMENT BENEFITS (Cont'd)	HHBC 1983 Database	State Employees	Federal Employees
Pension Plan			
Social Security Offset (Final pay plans)	65% have a direct social security offset 25% use an indirect social security offset	67% have no Social Security offset 33% have an indirect offset	not applicable
Retirement Before Age 65 (Final pay plans)	48% permit reduced and unreduced early retirement pensions 48% permit reduced early retirement pension only	67% permit reduced and un- reduced early retirement pensions 25% permit reduced early retirement only	permits unreduced retirement pension
Disability Provisions	66% allow service credits to accrue while col- lecting LTD benefits 34% pay an immediate dis- ability pension	100% pay an immediate dis- ability pension	pays an immediate disability pension
Death in Active Service Before Eligibility for Early Retirement	37% provide a death benefit, of these, 74% provide an income to survivors 16% provide a lump sum 8% provide a combination 2% provide another form of benefit	85% provide a death benefit, of these, 73% provide an income to survivors 27% provide a lump sum if	provides a death benefit which is an income to survivors

Federal Employees	automatically pro- vides a death benefit which is an income to survivors	gave COLAs by plan provision	gave full COLA increase totalling 87%	no plan			
State Employees	92% automatically provide a death benefit, of these, 75% provide an income to survivors 25% provide a lump sum	50% gave COLAs by plan provision 42% gave COLAs on an ad-hoc basis	33% gave 20.1-25% 17% gave 15.1-20% 17% gave 60.1-70% 8% gave 5.1-10% 8% gave 35.1-40% 8% gave 50.1-55%	0% have plan	_		
HHBC 1983 Database Signature Signature Database	70% automatically provide a death benefit paid for the plan, of these, 95% provide an income to survivors 3% provide a lump sum 1% provide a combination 1% provide either	41% gave no COLAs 25% gave ad hoc COLAs 23% gave COLAs by plan amendment	23% gave 15.1-20% 19% gave 5.1-10% 16% gave >30% 15% gave 10.1-15%	13% have plan, of these, 81% have matching employer contributions	58% are features of a thrift plan 25% are salary reduction only	48% are 1%-1,99% 32% are 2%-2,99%	25% are 5%-6.99% 23% are 9%-10.99% 16% are 15%-16.99% 14% are 1%-4.99%
RETIREMENT BENEFITS (Cont'd) Pension Plan	Death in Active Service After Eligibility for do Early Retirement A Barly Retirement A B B B B B B B B B B B B B B B B B B	Cost-of-Living Adjustments (Final Pay Plans)	Total Increase for 1/1/75 Retiree as of 1/1/83 Capital Accumulation	401(k)	Type of Plan	Minimum Deferral Amount	Maximum Deferral Amount

	icvatence of benefit Fractices	rractices	
RETIREMENT BENEFITS (Cont'd)	HHBC 1983 Database	State Employees	Federal Employees
Captial Accumulation Thrift Plan or Stock Purchase with Matching Contribution	43% have plan	0% have plan	no plan
Maximum Contribution Matched by Employer	54% permit maximum contribution of 6% of pay 16% permit maximum contribution of 5% of		
	pay 10% permit maximum con- tribution of 4% of pay		
Employer Matching	76% match by specified percent; of these, 53% match 50% of the employee's contribution 14% match 25-45% of the employee's contribution		
Profit Sharing/Stock Bonus Plan	20% have plan	0% have plan	no plan
Stock Ownership Plans	19% have plan; of these, 79% are PAYSOPs 21% are ESOPs	0% have plan	no plan
Discount Stock Purchase Plan	7% have plan	0% have plan	no plan
Section 457 Plan	0% have plan	38% have plan	no plan

Practices	
Benefit	
of	
Prevalence	

Federal Employees	provides 9 holidays	2 years-13 days 5 years-20 days 10 years-20 days 20 years-26 days
State Employees	23% provide 11 holidays 23% provide 13 holidays 23% provide > 13 holidays 15% provide 12 holidays	2 Yrs. 5 Yrs. 10 Yrs. 20 Yrs. 85% 15% 0% 0% 15% 85% 46% 0% 0% 0% 54% 38% 0% 0% 0% 62%
HHBC 1983 Database	33% provide 10-10.5 holidays 20% provide 9-9.5 holidays 19% provide 11-11.5 holidays 11% provide 12-12.5	2 Yrs. 10 Yrs. 20 Yrs. 83% 31% 1% 0% 10% 57% 65% 4% 2% 6% 22% 68% 0% 0% 1% 22%
OLIDAYS AND VACATIONS olidays	Total Number of Holidays Provided	10-14 days 15-17 days 18-20 days

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APPENDIX I

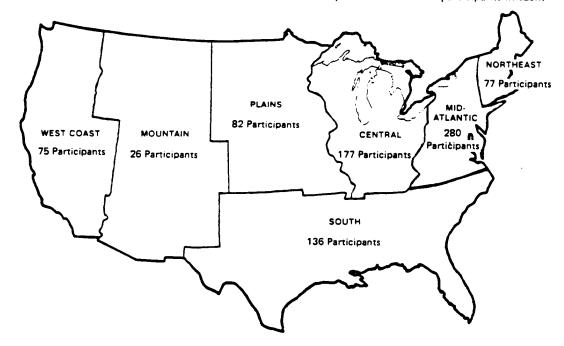
Characteristics of Participating Firms

GEOGRAPHICAL DISTRIBUTION OF PARTICIPANTS

Table A.12 Participants by Region

	T	otal
	No.	%
Central	177	21
Mid-Atlantic	280	33
Northeast	7 7	9
Plains	82	9
Mountain	26	3
South	136	16
West Coast	75	9
U. S. Participants	853	100
Canadian Participant	1	
Total Participants	854	

The following map indicates the regions noted in Table A.12 above, and the number of participants in each.



EXTENT OF OPERATIONS OF PARTICIPATING ORGANIZATIONS

Table A.13 Extent of Operations in the United States

	Inc	lustrial	Fin	./Svc.	Ţ	otal
	No.	٠%	No.	%	No.	%
Single Location	31	7	86	33	117	16
Regional—One State	34	7	78	3 0	112	15
Regional-Multi-State	109	23	3 8	15	147	20
National	301	63	58	22	35 9	49
Total	475	100	260	100	735	100
No Response	64		5 5		119	
Total Participants	539		315		854	

A majority (54%) of the Industrial organizations operate outside the United States or the United States and Canada as well, but only 12% of the responding Fin./Svc. group, as shown in Table A.14.

Table A.14 Areas of Operation

,	Inc	dustrial	Fin	./Svc.		Total
	No.	%	No.	%	No.	%
U. S. Only	220	46	231	88	451	61
U. S. & Canada	32	7	9	3	41	5
Multinational	229	47	25	9	254	34
Total	481	100	265	100	746	100
No Response	58		50		108	
Total Participants	539		315		854	

VARIATIONS OF BASIC BENEFITS PROGRAM WITHIN ORGANIZATIONS

Table A.15 Variations of Basic Benefits Within Organizations

	Industrial		Fin	./Svc.	Total		
	No.	%	No.	%	No.	%	
Same Program Organization-Wide							
(With Minor Differences)	417	88	251	98	668	92	
Industry-Oriented	21	4	_	-	21	3	
Location Oriented	23	5	2	1	25	3	
Job-Oriented	12	3	3	1	15	2	
Total	473	100	256	100	729	100	
No Response	66		59		125		
Total Participants	539		315		854		

NUMBER OF EMPLOYEES OF PARTICIPATING ORGANIZATIONS

Table A.16 Categories of Personnel Employed by Survey Participants

	Inc	Fin.	/Svc.	Total		
	No.	%	No.	%	No.	%
Salaried Exempt	335	100	218	98	5 53	99
Salaried Nonexempt	265	82	184	8 5	449	83
Hourly Non-Bargaining	201	71	94	53	295	64
Hourly Bargaining	186	63	26	15	212	45

Table A.17 Number of Total Salaried Employees

	Industrial		Fin	./Svc.	Total		
	No.	%	No.	%	No.	%	
< 100	17	5	17	9	34	6	
100-249	38	11	29	15	67	12	
250-499	45	13	31	16	76	14	
500-999	62	16	2 5	13	87	16	
1000-1499	38	11	24	12	62	11	
1500-1999	16	4	14	7	30	5	
2000-2499	16	4	14	7	30	5	
2500-2999	18	5	4	2	22	4	
3000-3499	10	3	4	. 2	14	3	
3500-3999	7	2	3	1	10	2	
4000-4999	20	6	10	5	30	٤	
5000-5999	14	4	2	1	16	3	
6000-7499	20	6	6	3	26	5	
7500-9999	10	3	4	2	14	3	
10,000-19,000	14	4	4	2	18	:	
≥ 20,000	11	3	6	3	17	3	
Total	356	100	197	100	553	100	
No Response	183		118		301		
Total Participants	539		315		854		

Table A.18 Number of Total U.S. Employees

	Industrial		Fi	n./Svc.	Total		
	No.	%	No.	%	No.	%	
< 100	10	2	18	6	28		
100-249	25	5	21	7	46	È	
250-499	31	6	28	10	59	;	
500-999	62	12	42	14	104	13	
1000-1499	51	10	40	14	91	11	
1500-1999	36	7	22	8	58	7	
2000-2499	16	3	23	8	39		
2500-2999	15	3	10	3	25	3	
3000-3499	15	3	9	3	24	3	
3500-3999	18	3	13	4	31	4	
4000-4999	25	5	17	6	42	5	
5000-5999	21	4	7	2	28	3	
6000-7499	19	4	11	4	30	4	
7500-9999 ·	29	6	10	3	39	5	
10,000-19,999	60	12	9	3	69	9	
20,000-29,999	28	6	2	1	30	4	
30,000-39,999	16	3	5	2	21	3	
40,000-49,999	13	2	1	0	14	2	
50,000-11,000,000	19	4	4	2	23	3	
Total	5 09	100	292	100	801	100	
No Response	30		23	, 55	53	700	
Total Participants	539		315		854		

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APPENDIX J

Regression Statistics for Federal

Cash Compensation Practice

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APPENDIX K

Base Salary Comparisons

PRIVATE SECTOR

Base Salary Comparison Table

Grade Level	Federal Compensation	Average All Private Compensation	Ratio (All Private <u>to Federal)</u>
3	\$11.816	\$12,577	106.44%
4	13.752	15,309	111.32
5	15,684	17.207	109.71
6	17.807	19.497	109.49
7	19,408	21,685	111.73
9	23,527	26,131	111.07
11	28,653	29.758	103.86
12	34,816	34,276	98.45
13	38,507	42,107	109.35
14	44,188	49,371	111.73
15	51.067	58,589	114.73